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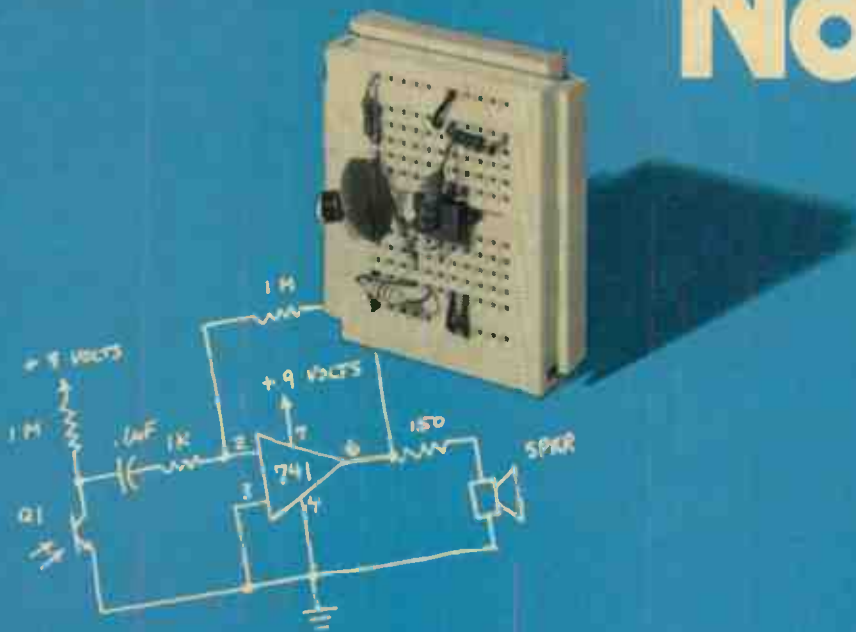
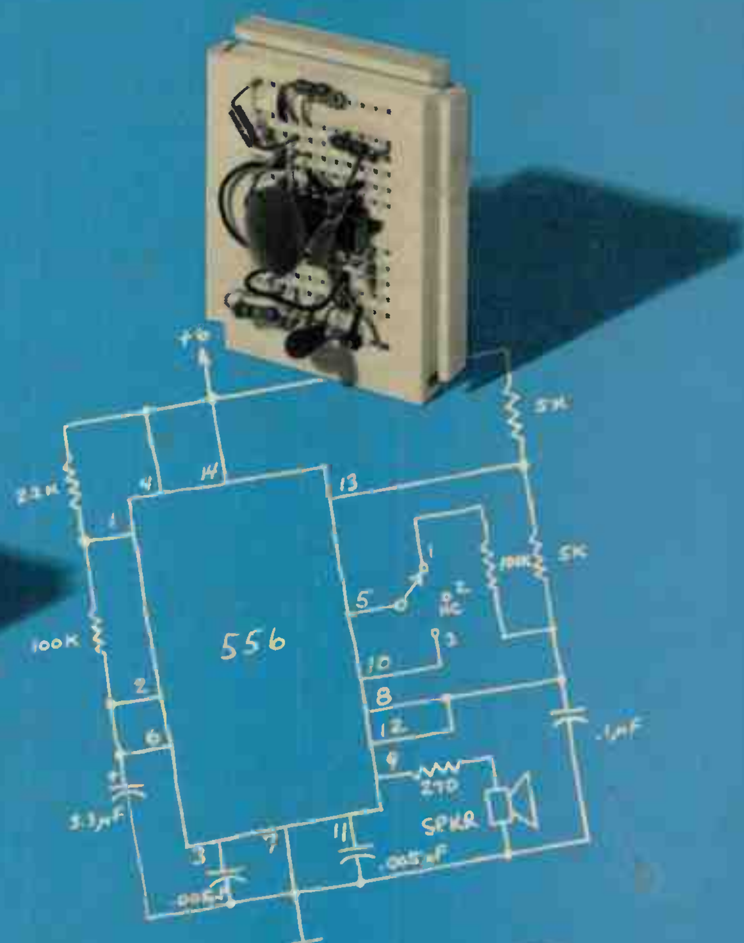
1980 EDITION

Engineer's Notebook

INTEGRATED CIRCUIT APPLICATIONS

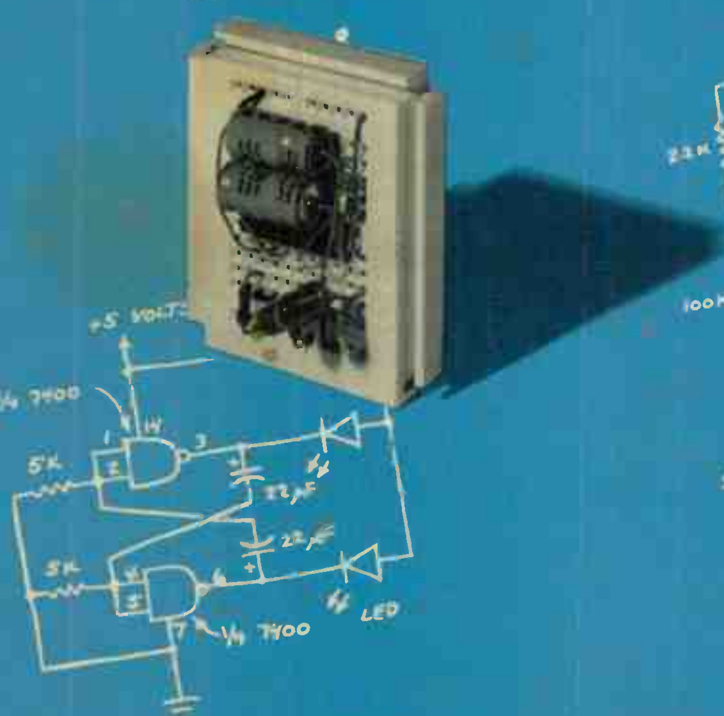


PHOTOTRANSISTOR LIGHT RECEIVER



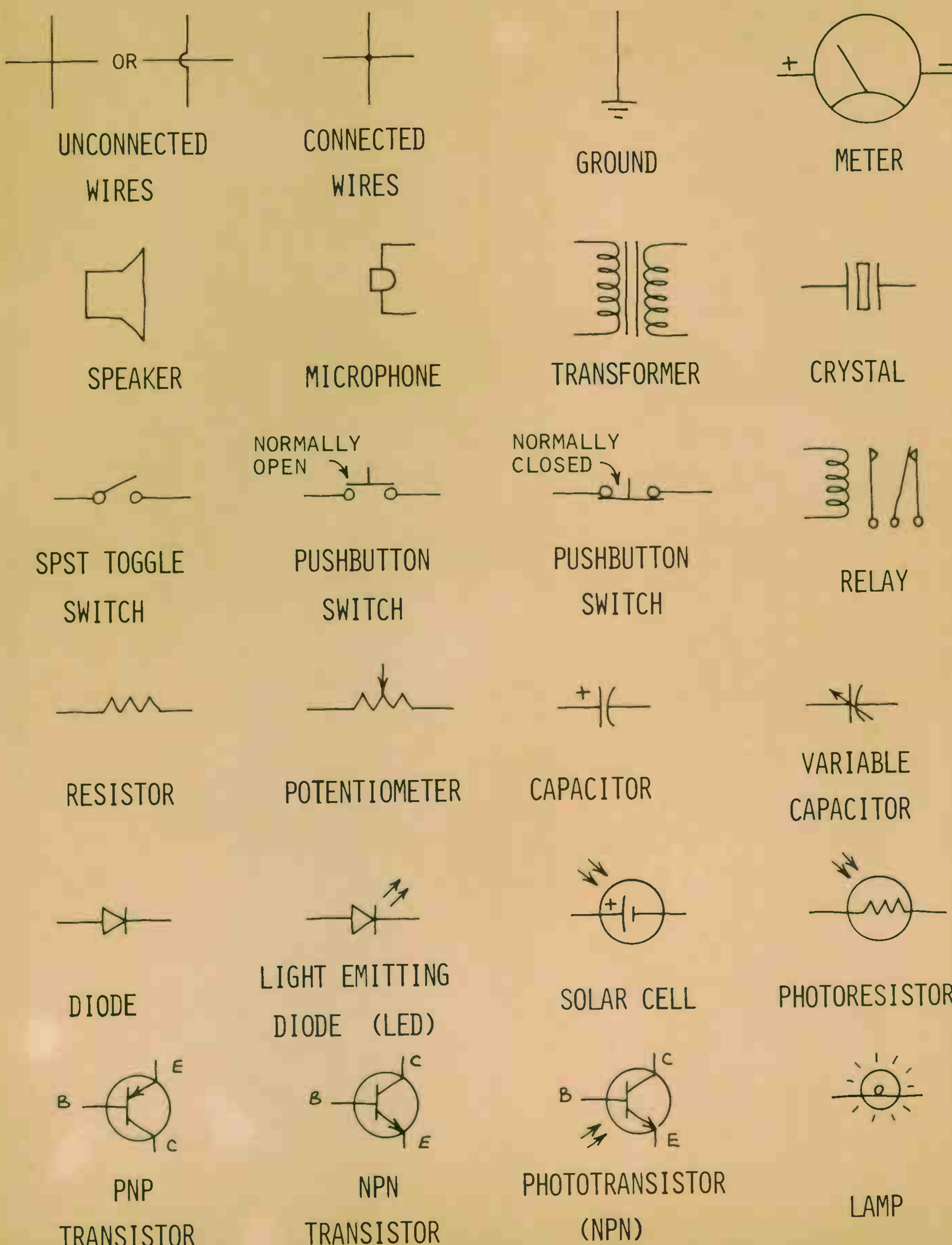
TRI-STATE TONE SOURCE

1 — (TWO-TONE)
2 — (STEADY)
3 — (TONE BURST)



DUAL LED FLASHER

COMMON SCHEMATIC SYMBOLS



ENGINEER'S NOTEBOOK

A HANDBOOK OF INTEGRATED CIRCUIT APPLICATIONS

BY

FORREST M. MIMS, III

CONTRIBUTING EDITOR
POPULAR ELECTRONICS

FIRST EDITION

FIRST PRINTING--1979

READ THIS...

This book is for the entertainment and edification of experimenters and hobbyists. While reasonable care has been exercised with regard to the accuracy of the information in this book, the author and publisher assume no responsibility for errors, omissions or suitability for any application. Neither do we assume any liability for any damages resulting from use of this information. It is your responsibility to determine if use, manufacture or sale of any device incorporating one or more circuits in this book infringes any patents, copyrights or other rights.

Due to the large volume of mail received by Radio Shack and the author, it is impossible to answer letters requesting custom circuit designs, technical advice, troubleshooting assistance, etc. But though we cannot acknowledge individual letters, we will nevertheless be delighted to review carefully your comments, impressions and suggestions about this book. Address your comments to:

Engineer's Notebook
Radio Shack Technical Publications
Dept. DG
1100 One Tandy Center
Fort Worth, TX 76102

Thanks in advance to those who write.

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INTRODUCTION

Though I've kept engineering notebooks for 15 years, the idea for this notebook came from Gary Burkhart, Radio Shack's parts buyer, and Dave Gunzel, manager of Radio Shack's publications division. Gary has long wanted to include in his parts line a no-frills sourcebook of circuits for every Radio Shack IC. He and Dave have invested many hours answering my questions, providing components and technical information and reviewing the circuits. I'm grateful for their assistance.

Unless otherwise acknowledged, the circuits in this notebook are adapted from these sources:

1. Applications information published by the manufacturers of the various ICs.

2. My engineering notebooks.

3. "Experimenter's Corner" and "Project of the Month," two columns I write each month for POPULAR ELECTRONICS magazine.

Many of the circuits were developed specifically for this notebook. I hope you enjoy working with them as much as I have!

Forrest M. Mims, III

HOW TO USE THIS BOOK

To squeeze the maximum number of circuits into this notebook, only essential information is provided. Therefore you will want to use this notebook in conjunction with Radio Shack's "Semiconductor Reference Handbook" and other data books.

For a quickie review of important components and construction tips, read the next few pages. The remainder of the notebook is divided into two major sections: digital and linear. The digital section is further divided into two major IC families: MOS/CMOS and TTL/LS. The chips in each section are organized according to function, not numerical sequence.

Though most circuits in this book can function on their own, consider them as building blocks you can connect to other circuits to accomplish new applications. Experiment! Change resistors and capacitors in RC circuits to alter frequencies and timing. Add new functions. Above all, work with as many different chips as you can. If you've always used TTL, you'll be impressed with the operating flexibility of CMOS. If your forte is digital logic, you'll be amazed at what you can do with an op-amp. Finally, keep a record of your experiments and circuit designs. A notebook with a grid ruling like this one is best, but a 50¢ spiral notebook is OK.

For beginners only....Be sure to read the next few pages! Begin with simple chips (gate packages, timers, op-amps, etc.), and you'll soon be ready for more advanced circuits and projects. Good luck!

REVIEWING THE BASICS

INTRODUCTION

"Can I use a 0.22 uF capacitor instead of a 0.10 uF unit?"

"Is it OK to substitute a 12,000 ohm resistor for a 10,000 ohm unit?"

This section will tackle these common questions and many others. Master them, and you will be well prepared to tackle the circuits in this book!

RESISTORS

Resistors limit the flow of electrical current. A resistor has a resistance (R) of 1 ohm if a current (I) of 1 ampere flows through it when a potential difference (E) of 1 volt is placed across it. In other words:

$$R = \frac{E}{I} \text{ (or) } I = \frac{E}{R} \text{ (or) } E = IR$$

These handy formulas form Ohm's law. Memorize them! You'll use them often.

Resistors are identified by a color code:

COLOR	1	2	3 (Multiplier)
BLACK	0	0	1
BROWN	1	1	10
RED	2	2	100
ORANGE	3	3	1000
YELLOW	4	4	10,000
GREEN	5	5	100,000
BLUE	6	6	1,000,000
VIOLET	7	7	10,000,000
GRAY	8	8	100,000,000
WHITE	9	9	(none)

A fourth color band may be present. It specifies the tolerance of the resistor. Gold is ± 5% and silver is ± 10%. No fourth band means ± 20%.

Since no resistor has a perfect tolerance, it's often OK to substitute resistors. For example, it's almost always OK to use a 1.8K resistor in place of a 2.0K unit. Just try to stay within 10-20% of the specified value.

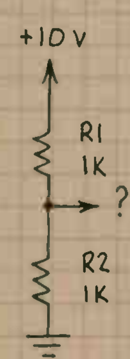
What does K mean? It's short for 1,000. 20K means 20 x 1,000 or 20,000 ohms. M is short for megohm or 1,000,000 ohms. Therefore a 2.2M resistor has a resistance of 2,200,000 ohms.

Resistors which resist lots of current must be able to dissipate the heat that's produced. Always use resistors with the specified power rating! No power rating specified? Then it's usually OK to use 1/4 or 1/2 watt units.

Almost every electronic circuit uses resistors. Here are three of the most important applications for resistors:

1. Limit current to LEDs, transistors, speakers, etc.

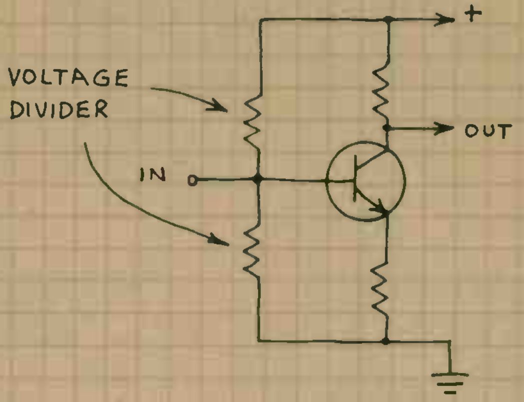
2. Voltage division. For instance:



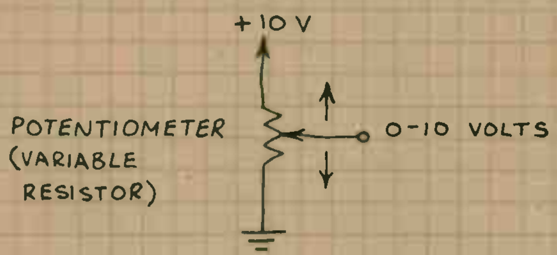
The voltage at ? is I x R2. I means the current through R1 and R2. So I = 10/(R1 + R2) or 0.005 amperes. Therefore, ? = (0.005) x (1000) or 5 volts.

Note that the total resistance of R1 and R2 is simply R1 + R2. This rule provides a handy trick for making custom resistances.

Voltage dividers are used to bias transistors:



They're also a convenient source of variable voltage:



And they're useful in voltage sensing circuits. See the comparator circuits in this notebook.

3. They control the charging time of capacitors. Read on...

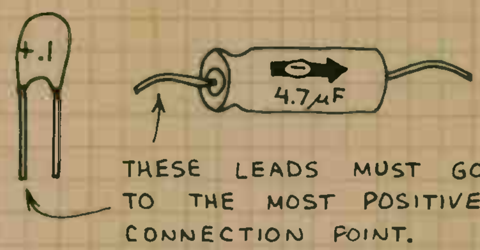
CAPACITORS

Capacitors store electrical energy and block the flow of direct current while passing alternating current. Capacitance is specified in farads. One farad represents a huge capacitance so most capacitors have values of small fractions of a farad:

1 microfarad (uF) = 10^{-6} farad
1 picofarad (pF) = 10^{-12} farad
or
1 uF = 1,000,000 pF

The value of a capacitor is usually printed on the component. The uF and pF designations may <u>not</u> be present. Small ones marked 1-1000 are rated in pF; larger ones marked .001-1000 are rated in uF.

Electrolytic capacitors provide high capacity in a small space. Their leads are polarized and must be connected into a circuit in the proper direction.



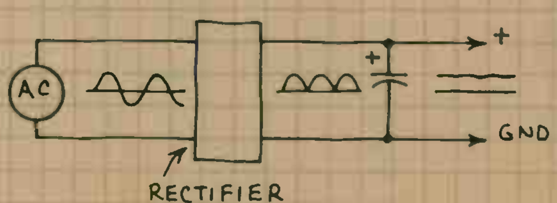
Capacitors have a voltage rating. It's usually printed under the capacity marking. The voltage rating <u>must</u> be higher than the highest expected voltage (usually the power supply voltage).

Caution: A capacitor can store a charge for a considerable time after power is removed. This charge can be dangerous! A large electrolytic capacitor charged to only 5 or 10 volts can melt the tip of a screwdriver placed across its leads! High voltage capacitors can store a lethal charge! Discharge a capacitor by carefully placing a resistor (1K or more; use Ohm's law) across its leads. Use only one hand to prevent touching both leads of the capacitor.

Important capacitor applications:

1. Remove power supply spikes. (Place 0.01-0.1 uF across power supply pins of digital ICs. Stops false triggering.)

2. Smooth rectified AC voltage into steady DC voltage. (Place 100-10,000 uF across rectifier output.)

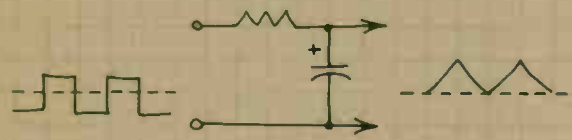


3. Block DC signal while passing AC signal.

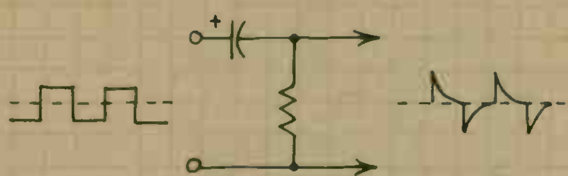
4. Bypass AC signal around a circuit or to ground.

5. Filter out unwanted portions of a fluctuating signal.

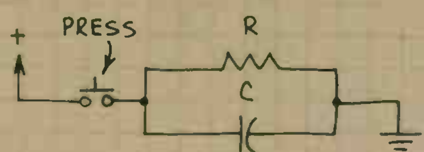
6. Use with resistor to integrate a fluctuating signal:



7. Or to differentiate a fluctuating signal:



8. Perform a timing function:



C will quickly charge...then slowly discharge through R.

9. Store a charge to keep a transistor turned off or on.

10. Store a charge to be dumped through a flashtube or LED in a fast and powerful pulse.

Can you substitute capacitors? In most cases changing the value of a capacitor 10% or even 100% will not cause a malfunction, but circuit operation may be affected. In a timing circuit, for example, increasing the value of the timing capacitor will increase the timing period. Changing the capacitors in a filter will change the filter's frequency response. Be sure to use the proper voltage rating. And don't worry about the difference between 0.47 and 0.5 uF.

SEMICONDUCTORS

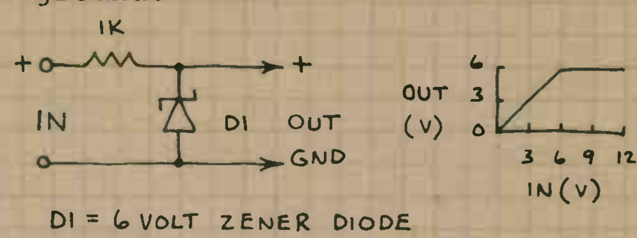
Usually made from silicon. Be sure to observe all operating restrictions. Brief descriptions of important semiconductor devices:

DIODES

Permit current to flow in but one direction (forward bias). Used to rectify AC, allow current to flow into a circuit but block its return, etc.

ZENER DIODES

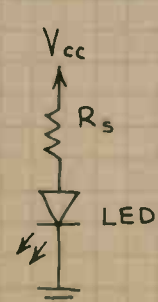
The zener diode is a voltage regulator. In this typical circuit, voltage exceeding the diode's breakdown voltage is shunted to ground:



Zeners can also protect voltage sensitive components and provide a convenient reference voltage.

LIGHT EMITTING DIODES

LEDs emit green, yellow, red or infrared when forward biased. A series resistor should be used to limit current to less than the maximum allowed:



$$R_S = \frac{V_{CC} - V_{LED}}{LED_I}$$

Example: V_{LED} of red LED is 1.7 volts. For a forward current (LED_I) of 20 mA at V_{CC} = 5 volts, R = 330 ohms. Don't exceed LED_I!!

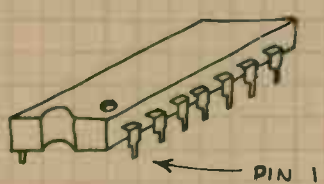
Infrared LEDs are much more powerful than visible LEDs, but their radiation is totally invisible. Use them for object detectors and communicators.

TRANSISTORS

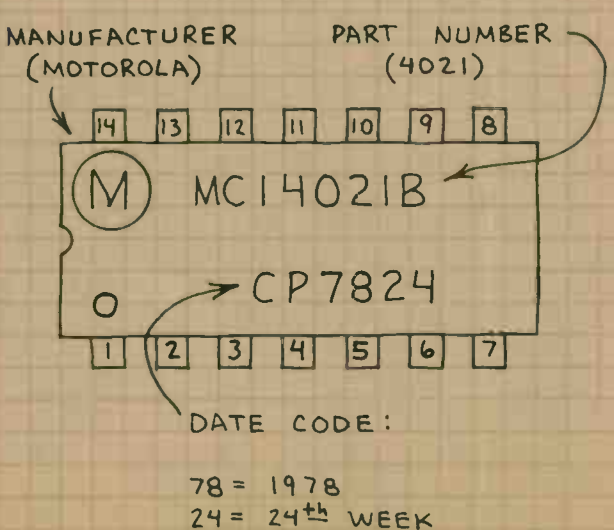
In this notebook, transistors are used as simple amplifiers and switches that turn on LEDs. Any general purpose switching transistors will work.

INTEGRATED CIRCUITS

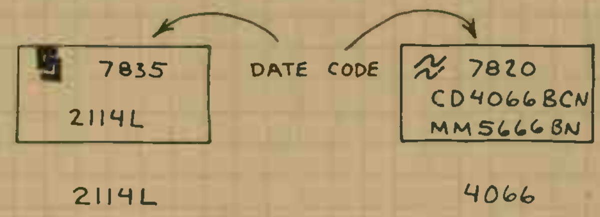
Since an IC is a complete circuit on a silicon chip, you must observe all operating restrictions. Reversed polarity, excessive supply voltage and sourcing or sinking too much current can destroy an IC. Be sure to pay close attention to the location of the power supply pins! Most ICs are packaged in 8, 14 or 16 pin plastic DIPs (Dual In-line Packages). A notch or circle is near pin 1:



When the IC is right side up, pin 1 is at lower left:



Incidentally, a date code may not be present, but other numbers may be...and the date code is not always below the device number:



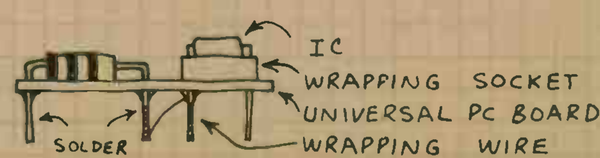
Store ICs in a plastic cabinet if you can afford one. Or insert them in rows in a styrofoam tray (the kind used for meat in a grocery store). CAUTION: Never store MOS/CMOS ICs in ordinary non-conductive plastic. See p. 12.

CIRCUIT BUILDING

Build your circuits on a solderless breadboard to make changes and find bugs. Then make permanent versions. Radio Shack plastic modular sockets (276-173, etc.) are ideal. They include two socket rows for power supply connections and snap rails for attaching sockets together. Parts and wires can be inserted directly into the holes in the socket.

For permanent circuits, use Radio Shack PC boards. Catalog numbers 276-024 and 276-151 are ideal for simple IC projects. Use larger universal PC boards for more complex projects (276-152 & 276-157). You can cut them into smaller sections with a nibbler tool or small saw.

I prefer to use wrapping wire for IC projects. Insert wrapping sockets in board and make connections with a Wire-Wrapping tool (such as 276-1570). Apply wrapping wire directly to leads of transistors, resistors, etc. and solder in place.



NOTES

DIGITAL INTEGRATED CIRCUITS

INTRODUCTION

DIGITAL ICs ARE 2-STATE DEVICES. ONE STATE IS NEAR 0 VOLTS OR GROUND (LOW OR L) AND THE OTHER IS NEAR THE IC'S SUPPLY VOLTAGE (HIGH OR H). SUBSTITUTE 0 FOR L AND 1 FOR H AND DIGITAL ICs CAN PROCESS INDIVIDUAL BINARY DIGITS (BITS) OR MULTIPLE BIT WORDS. A 4-BIT WORD IS A NIBBLE AND AN 8-BIT WORD IS A BYTE.

THE BINARY SYSTEM

IT'S VERY HELPFUL TO KNOW THE FIRST 16 BINARY NUMBERS. IF 0=L AND 1 = H, THEY ARE:

0 - L L L L	8 - H L L L
1 - L L L H	9 - H L L H
2 - L L H L	10 - H L H L
3 - L L H H	11 - H L H H
4 - L H L L	12 - H H L L
5 - L H L H	13 - H H L H
6 - L H H L	14 - H H H L
7 - L H H H	15 - H H H H

NOTE THAT LLLL (0) IS AS MUCH A NUMBER AS ANY OTHER NUMBER.

LOGIC GATES

LOGIC CIRCUITS ARE MADE BY INTER-CONNECTING TWO OR MORE OF THESE BASIC LOGIC GATES:

AND

A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

NAND

A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

OR

A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

NOR

A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

EXCLUSIVE-OR

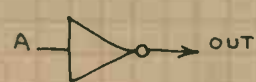
A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

EXCLUSIVE-NOR

A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

A	OUT
L	L
H	H

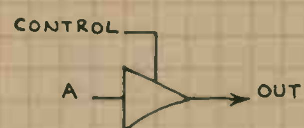
YES (BUFFER)

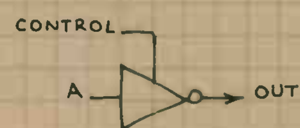


A	OUT
L	H
H	L

NOT (INVERTER)

3-STATE LOGIC





CONTROL	A	OUT
L	L	L
L	H	H
H	X	HI-Z

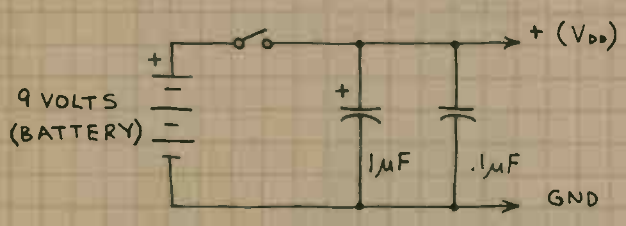
CONTROL	A	OUT
L	L	H
L	H	L
H	X	HI-Z

HI-Z: OUTPUT IN HIGH IMPEDANCE STATE.

MOS/CMOS INTEGRATED CIRCUITS

INTRODUCTION

MOS ICs CAN CONTAIN MORE FUNCTIONS PER CHIP THAN TTL/LS AND ARE VERY EASY TO USE. MOST CHIPS IN THIS SECTION ARE CMOS (COMPLEMENTARY MOS). THEY CONSUME VERY LITTLE POWER AND OPERATE OVER A +3-15 VOLT RANGE. CMOS CAN BE POWERED BY THIS:



OR YOU CAN USE A LINE POWERED SUPPLY MADE FROM A 7805/7812/7815. SEE THE LINEAR SECTION.

INCIDENTALLY, YOU CAN POWER A CMOS CIRCUIT FROM TWO SERIES CONNECTED PENLIGHT CELLS, BUT A 9-12 VOLT SUPPLY WILL GIVE BETTER PERFORMANCE.

OPERATING REQUIREMENTS

1. THE INPUT VOLTAGE SHOULD NOT EXCEED V_{DD}! (TWO EXCEPTIONS: THE 4049 AND 4050.)

2. AVOID, IF POSSIBLE, SLOWLY RISING AND FALLING INPUT SIGNALS SINCE THEY CAN CAUSE EXCESSIVE POWER CONSUMPTION. RISETIMES FASTER THAN 15 MICROSECONDS ARE BEST.

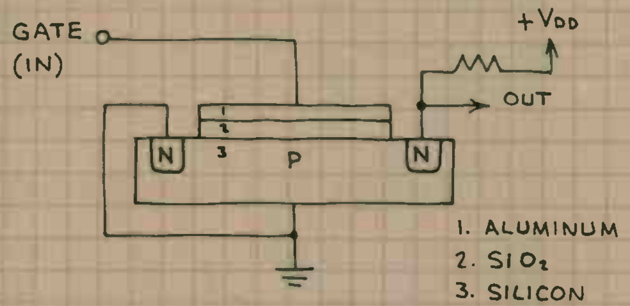
3. ALL UNUSED INPUTS MUST BE CONNECTED TO V_{DD} (+) OR V_{SS} (GND). OTHERWISE ERRATIC CHIP BEHAVIOR AND EXCESSIVE CURRENT CONSUMPTION WILL OCCUR.

4. NEVER CONNECT AN INPUT SIGNAL TO A CMOS CIRCUIT WHEN THE POWER IS OFF.

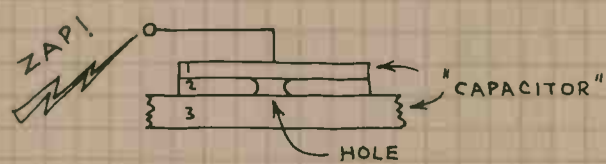
5. OBSERVE HANDLING PRECAUTIONS.

HANDLING PRECAUTIONS

A CMOS CHIP IS MADE FROM PMOS AND NMOS TRANSISTORS. MOS MEANS METAL - OXIDE - SILICON (OR SEMICONDUCTOR). P AND N REFER TO POSITIVE AND NEGATIVE CHANNEL MOS TRANSISTORS. AN NMOS TRANSISTOR LOOKS LIKE THIS:



A PMOS TRANSISTOR IS IDENTICAL EXCEPT THE P AND N REGIONS ARE EXCHANGED. THE SiO_2 (SILICON DIOXIDE) LAYER IS A GLASSY FILM THAT SEPARATES AND INSULATES THE METAL GATE FROM THE SILICON SUBSTRATE. THIS FILM IS WHY A MOS TRANSISTOR OR IC PLACES PRACTICALLY NO LOAD ON THE SOURCE OF AN INPUT SIGNAL. THE FILM IS VERY THIN AND IS THEREFORE EASILY PUNCTURED BY STATIC ELECTRICITY:



PREVENT STATIC DISCHARGE!

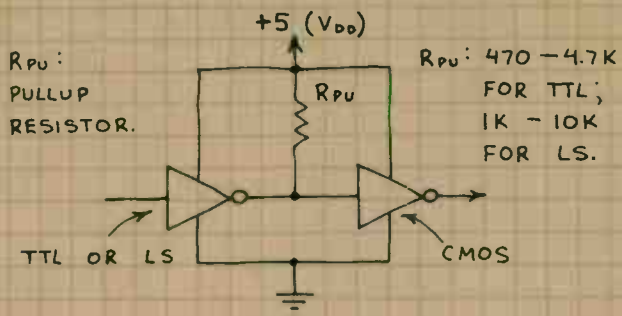
1. NEVER STORE MOS IC'S IN NONCONDUCTIVE PLASTIC "SNOW," TRAYS, BAGS OR FOAM.

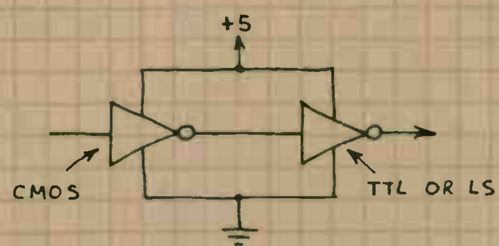
2. PLACE MOS IC'S PINS DOWN ON AN ALUMINUM FOIL SHEET OR TRAY WHEN THEY ARE NOT IN A CIRCUIT OR STORED IN CONDUCTIVE FOAM.

3. USE A BATTERY POWERED IRON TO SOLDER MOS CHIPS. DO NOT USE AN AC POWERED IRON.

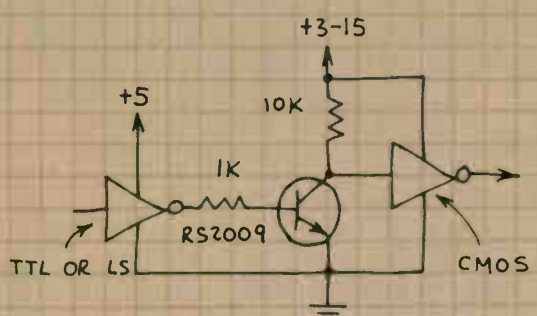
INTERFACING CMOS

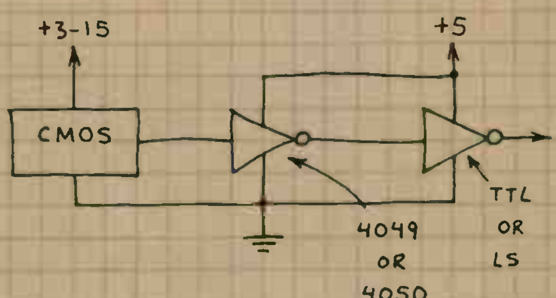
1. IF SUPPLY VOLTAGES ARE EQUAL:





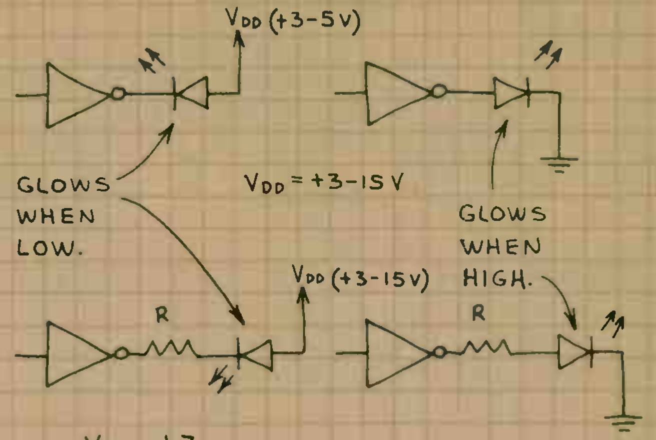
2. DIFFERENT SUPPLY VOLTAGES:





NOTE THAT CMOS MUST BE POWERED BY AT LEAST 5 VOLTS WHEN CMOS IS INTERFACED WITH TTL. OTHERWISE THE CMOS INPUT WILL EXCEED V_{DD}.

3. CMOS LED DRIVERS:

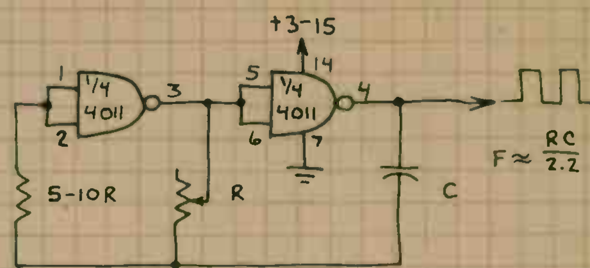


$R = \dfrac{V_{DD} - 1.7}{.01}$ (FOR 10 mA LED CURRENT)

USE 1000 OHMS FOR MOST APPLICATIONS.

CMOS LOGIC CLOCK

MANY CIRCUITS IN THIS SECTION REQUIRE A SOURCE OF PULSES. HERE'S A SIMPLE CMOS CLOCK:



TYPICAL VALUES: R = 100K, C = 0.01 — 0.1 μF

OK TO USE 4049 ... BUT MUCH MORE CURRENT WILL BE REQUIRED.

CMOS TROUBLESHOOTING

1. DO ALL INPUTS GO SOMEWHERE?

2. ARE ALL IC PINS INSERTED INTO THE BOARD OR SOCKET?

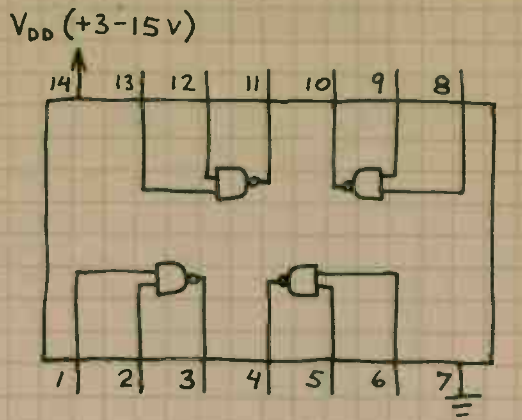
3. IS THE IC HOT? IF SO, SEE 1-2 ABOVE AND MAKE SURE THE OUTPUT IS NOT OVERLOADED.

4. DOES THE CIRCUIT OBEY ALL CMOS OPERATING REQUIREMENTS?

5. HAVE YOU FORGOTTEN A CONNECTION?

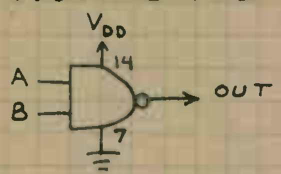
QUAD NAND GATE
4011

THE BASIC CMOS BUILDING BLOCK CHIP. MORE APPLICATIONS THAN TTL 7400/74LS00 QUAD NAND GATE.



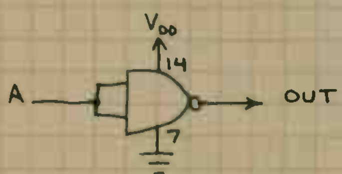
IMPORTANT: CONNECT ALL UNUSED INPUTS TO PIN 7 OR 14!

CONTROL GATE



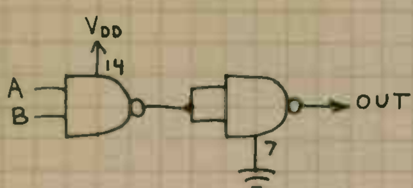
A B	OUT
L L	H
L H	H
H L	H
H H	L

INVERTER



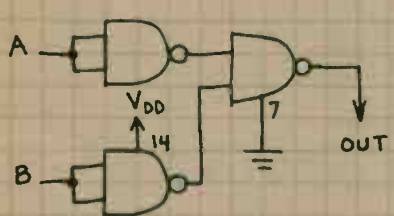
A	OUT
L	H
H	L

AND GATE



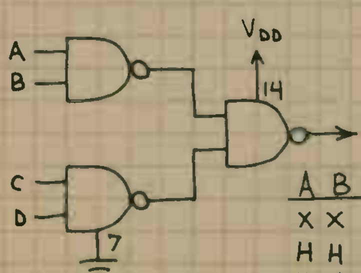
A B	OUT
L L	L
L H	L
H L	L
H H	H

OR GATE



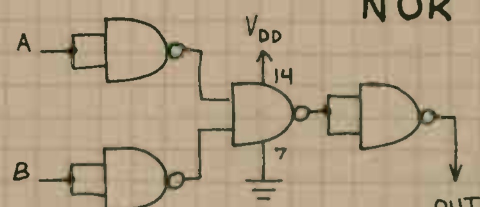
A B	OUT
L L	L
L H	H
H L	H
H H	H

AND-OR GATE



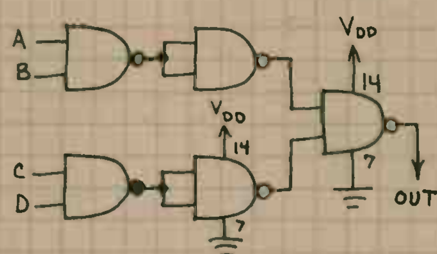
A B	C D	OUT
X X	H H	H
H H	X X	H
H H	H H	H

NOR GATE



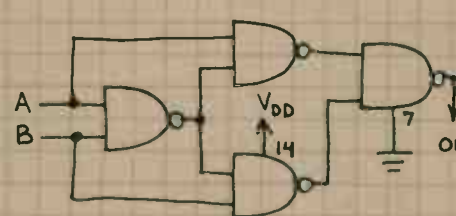
A B	OUT
L L	H
L H	L
H L	L
H H	L

4-INPUT NAND GATE



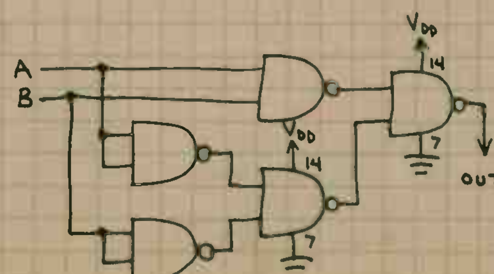
A B C D	OUT
L X X X	H
X L X X	H
X X L X	H
X X X L	H
H H H H	L

EXCLUSIVE-OR GATE



A B	OUT
L L	L
L H	H
H L	H
H H	L

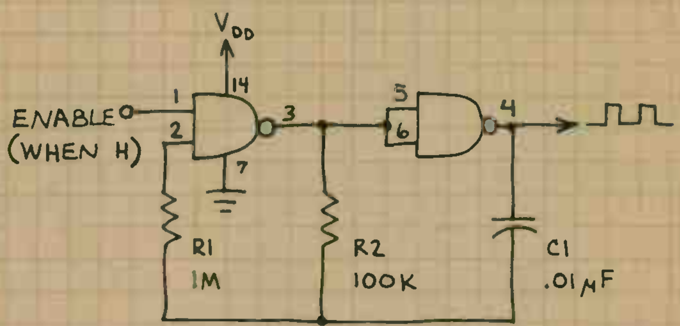
EXCLUSIVE-NOR GATE



A B	OUT
L L	H
L H	L
H L	L
H H	H

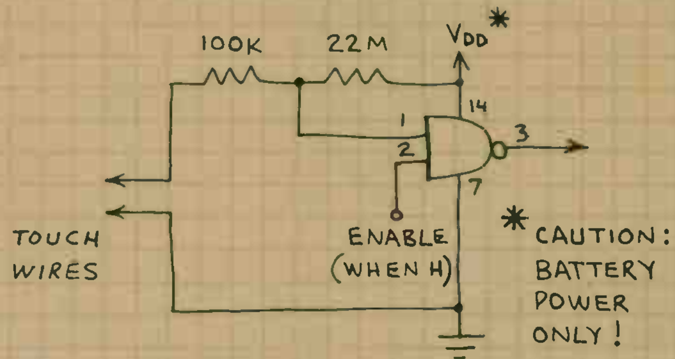
QUAD NAND GATE (CONTINUED)
4011

GATED OSCILLATOR



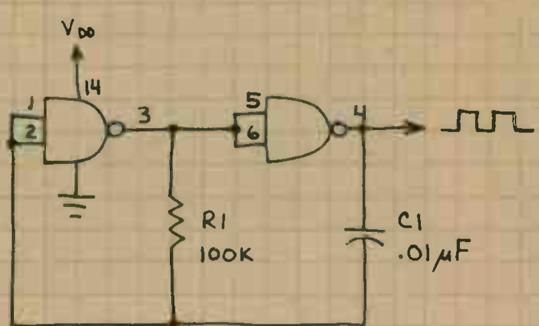
OUTPUT FREQUENCY IS 1 KHz SQUARE WAVE.

TOUCH SWITCH



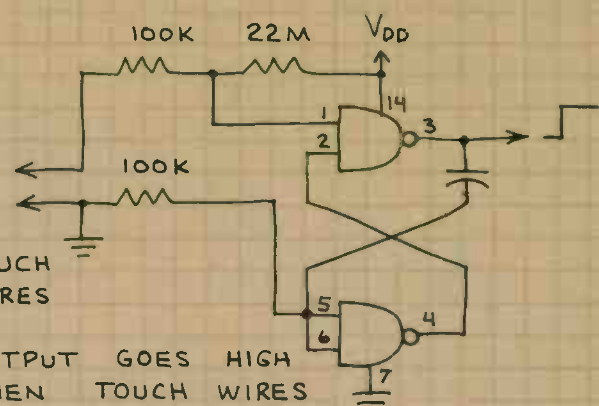
OUTPUT GOES HIGH WHEN TOUCH WIRES ARE BRIDGED BY A FINGER.

SIMPLE OSCILLATOR



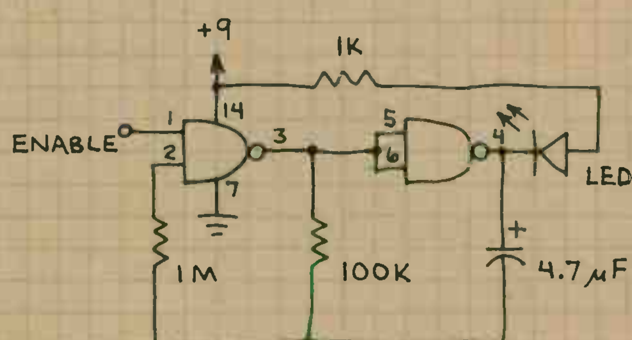
OUTPUT NOT AS SYMMETRICAL AS ABOVE CIRCUIT.

ONE-SHOT TOUCH SWITCH



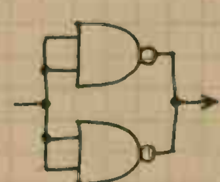
OUTPUT GOES HIGH WHEN TOUCH WIRES ARE BRIDGED BY A FINGER. OUTPUT THEN RETURNS LOW AFTER ABOUT 1 SECOND.

GATED FLASHER

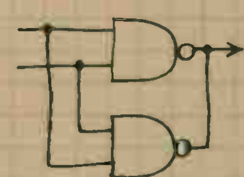


LED FLASHES 1-2 Hz WHEN ENABLE IS HIGH. LED STAYS ON WHEN ENABLE IS LOW.

INCREASED OUTPUT DRIVE



INVERTER

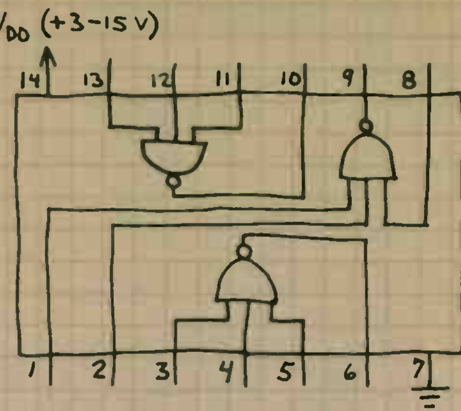


NAND GATE

USE THIS METHOD TO INCREASE CURRENT THE 4011 CAN SOURCE OR SINK. OK TO ADD MORE GATES.

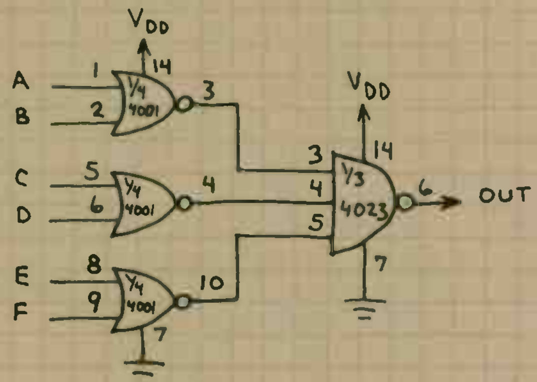
TRIPLE 3-INPUT NAND GATE
4023

HANDY FOR MAKING CUSTOM DECODERS, CONVERTERS AND MULTIPLE INPUT GATES.

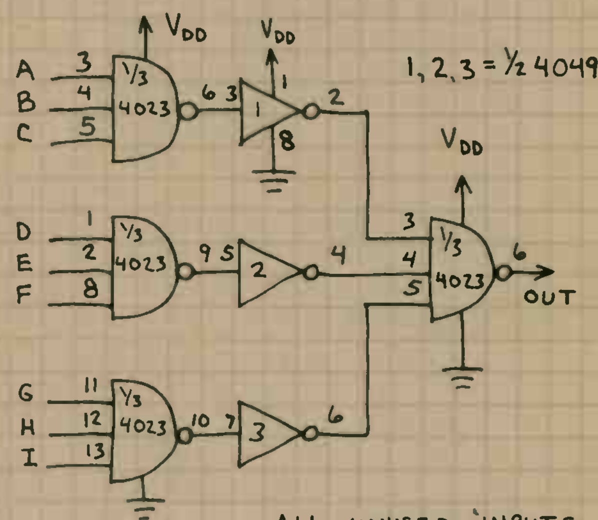


IMPORTANT: CONNECT ALL UNUSED INPUTS TO PIN 7 OR 14.

6-INPUT OR GATE



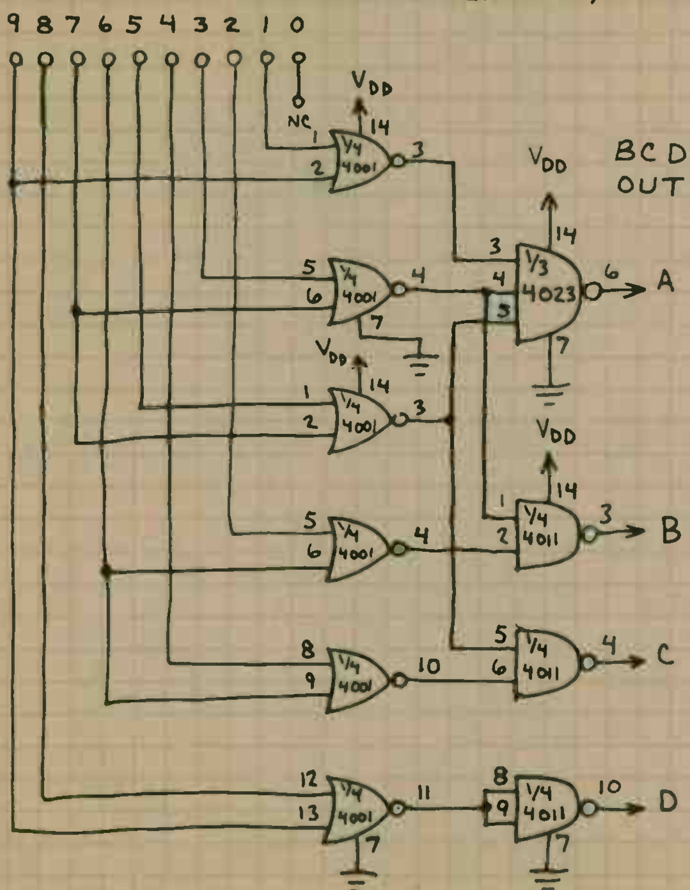
9-INPUT NAND GATE



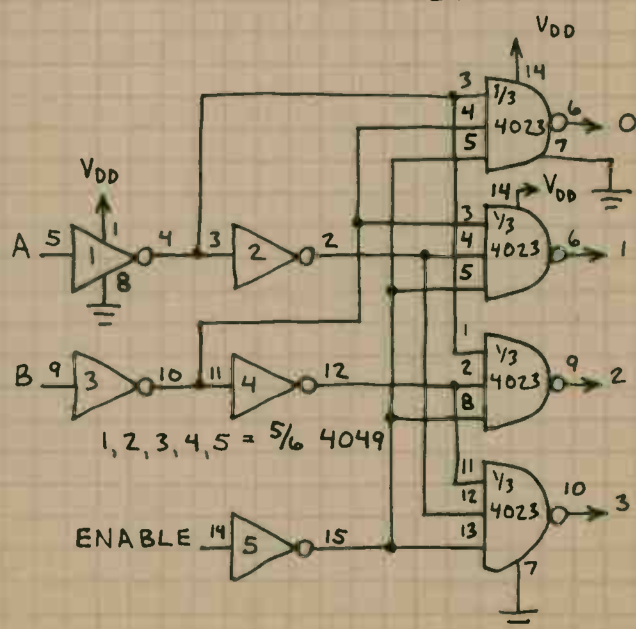
ALL UNUSED INPUTS MUST BE GROUNDED.

DECIMAL-TO-BCD CONVERTER

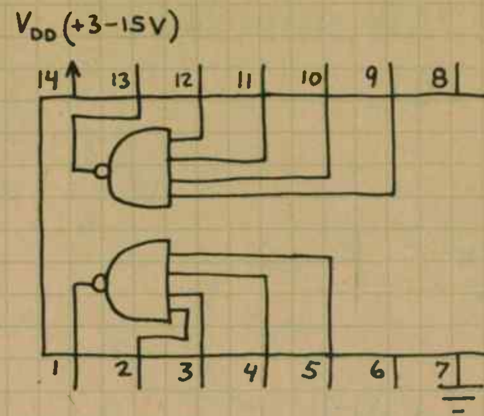
DECIMAL IN (SELECTED DIGIT H, ALL OTHERS L.)



1-OF-4 DECODER

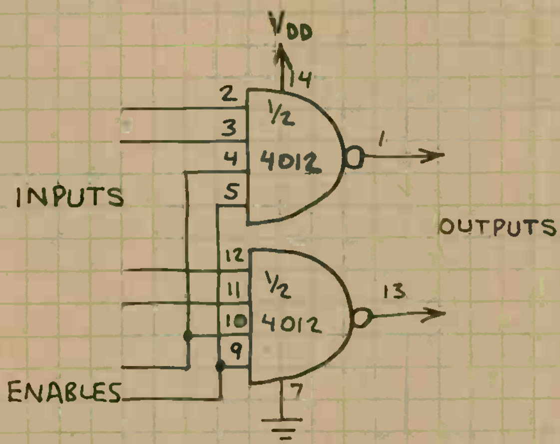


DUAL 4-INPUT NAND GATE 4012

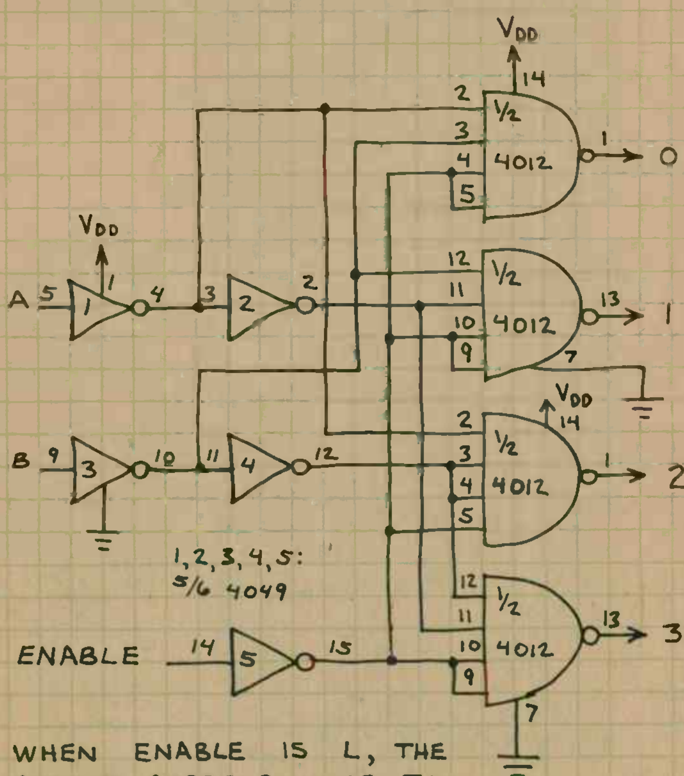


VERY USEFUL IN MAKING DECODERS. ALSO CAN BE USED TO ADD ONE OR MORE ENABLE INPUTS TO VARIOUS CIRCUITS.

ENABLE INPUT



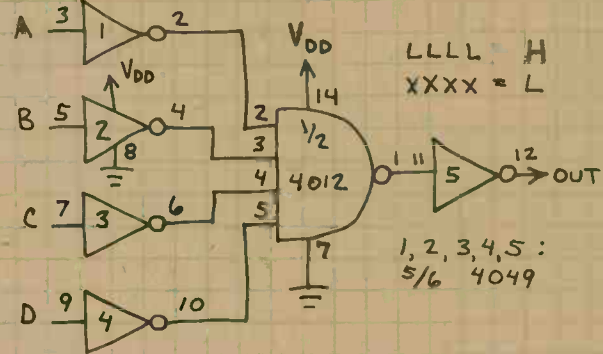
1-OF-4 DECODER



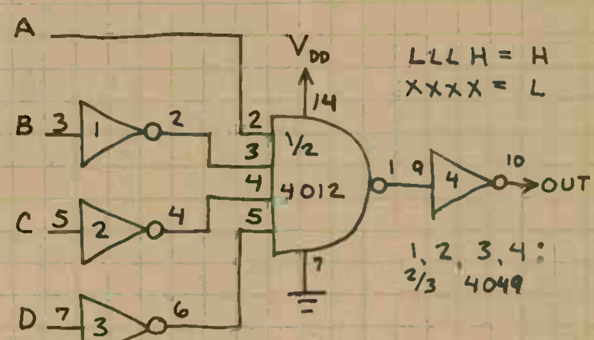
WHEN ENABLE IS L, THE OUTPUT CORRESPONDING TO THE BA BINARY INPUTS GOES LOW. ALL OTHER OUTPUTS GO HIGH WHEN ENABLE IS H.

BCD DECODERS

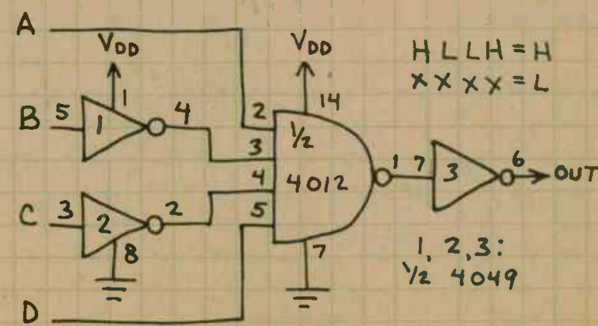
DECIMAL 0



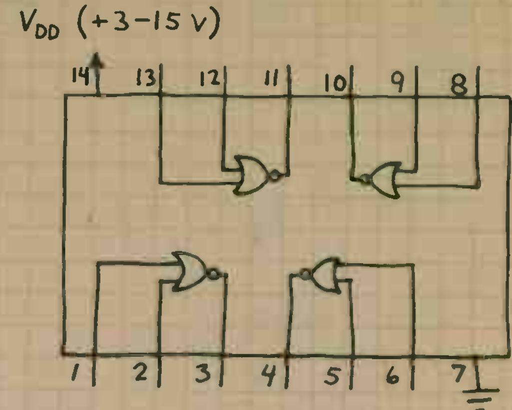
DECIMAL 1



DECIMAL 9



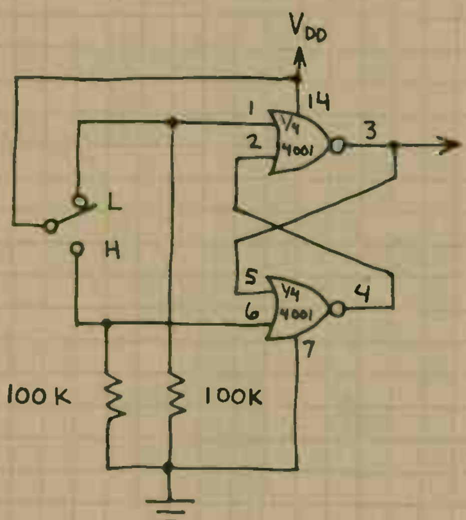
QUAD NOR GATE
4001



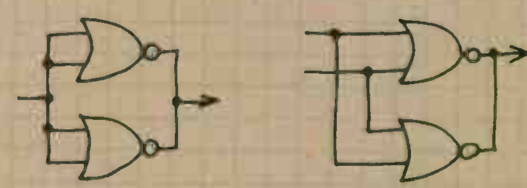
AN IMPORTANT CMOS BUILDING BLOCK CHIP. ITS HIGH IMPEDANCE INPUT MAKES POSSIBLE MORE APPLICATIONS THAN THE TTL 7402/74LS02 QUAD NOR GATE.

IMPORTANT: CONNECT ALL UNUSED INPUTS TO PIN 7 OR 14.

BOUNCELESS SWITCH



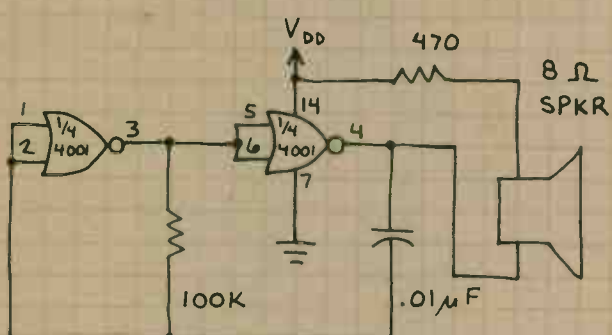
INCREASED OUTPUT DRIVE



INVERTER NOR GATE

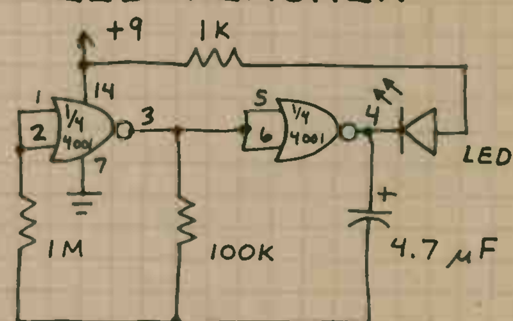
USE THIS METHOD TO INCREASE CURRENT THE 4001 CAN SOURCE OR SINK. OK TO ADD MORE GATES.

GATED TONE SOURCE



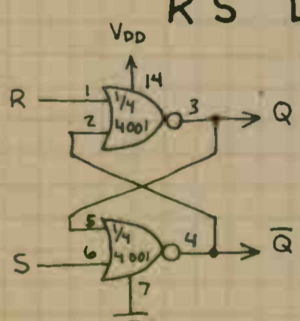
TONE FREQUENCY IS ABOUT 1KHz.

LED FLASHER



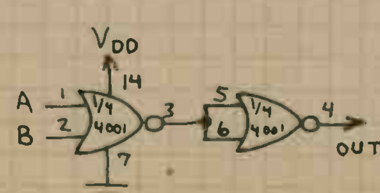
LED FLASHES 1-2 TIMES/SECOND.

RS LATCH



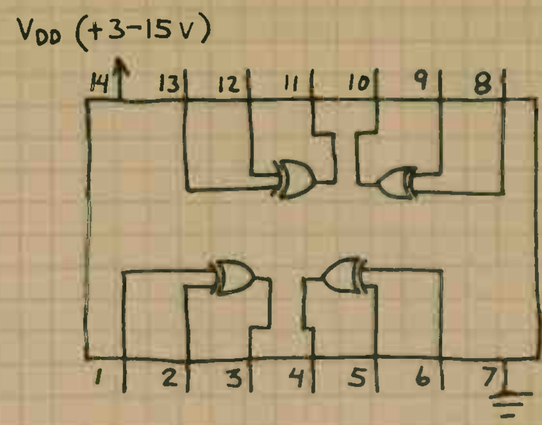
R	S	Q	$\overline{Q}$
L	L	NO CHANGE	
L	H	H	L
H	L	L	H
H	H	NOT ALLOWED	

OR GATE



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

QUAD EXCLUSIVE-OR GATE 4070

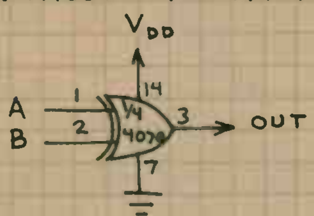


THE OUTPUT OF EACH GATE GOES LOW WHEN BOTH INPUTS ARE EQUAL. THE OUTPUT GOES HIGH IF THE INPUTS ARE UNEQUAL. MANY APPLICATIONS INCLUDING BINARY ADDITION, COMPARING BINARY WORDS AND PHASE DETECTION.

IMPORTANT: CONNECT UNUSED INPUTS TO PIN 7 OR 14.

1-BIT COMPARATOR

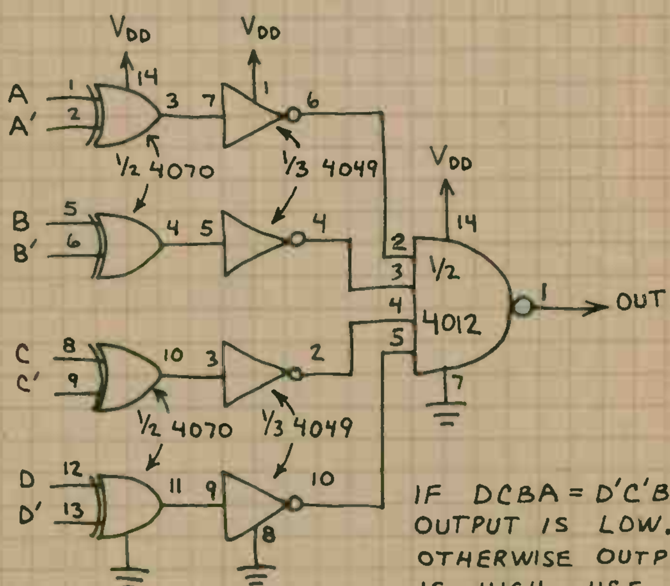
THIS CIRCUIT IS ALSO A HALF-ADDER WITHOUT A CARRY OUTPUT.



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

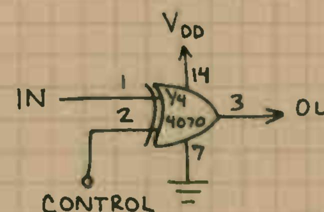
4-BIT COMPARATOR

DETERMINES IF TWO 4-BIT WORDS ARE EQUAL.



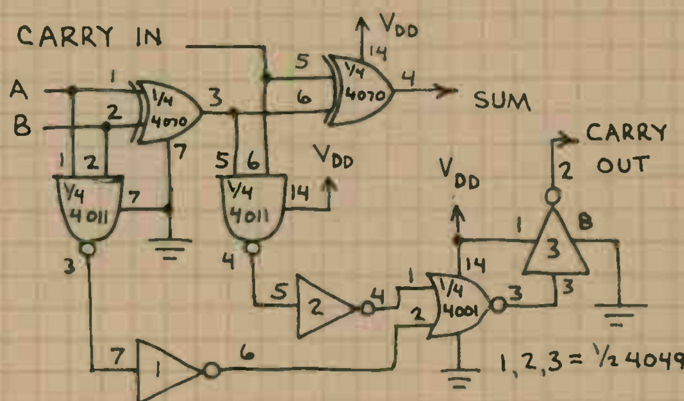
IF DCBA = D'C'B'A' OUTPUT IS LOW. OTHERWISE OUTPUT IS HIGH. USE SECOND HALF OF 4012 AS INVERTER TO REVERSE OPERATION.

CONTROLLED INVERTER

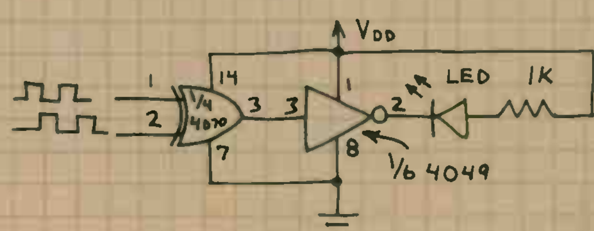


L: IN = OUT
H: IN = $\overline{\text{OUT}}$

BINARY FULL ADDER



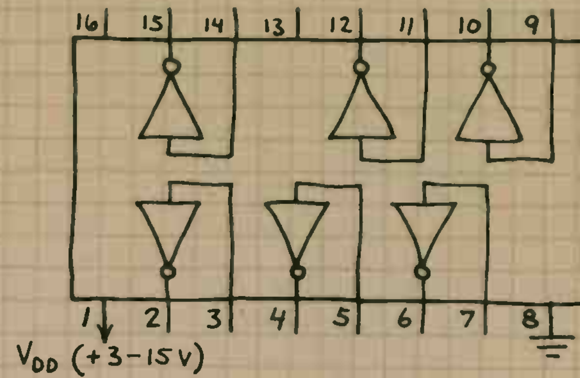
PHASE DETECTOR



LED STOPS GLOWING WHEN THE INPUT FREQUENCIES ARE EQUAL.

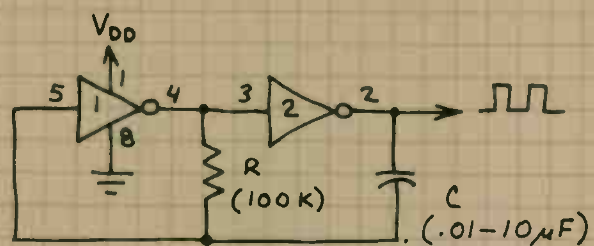
HEX INVERTING BUFFER
4049

IN ADDITION TO STANDARD LOGIC AND CMOS TO TTL INTERFACING, OFTEN USED IN OSCILLATORS AND PULSE GENERATORS. FOR LOW CURRENT APPLICATIONS, USE 4011 CONNECTED AS INVERTER. (OK TO USE 4011 FOR CIRCUITS ON THIS PAGE.)



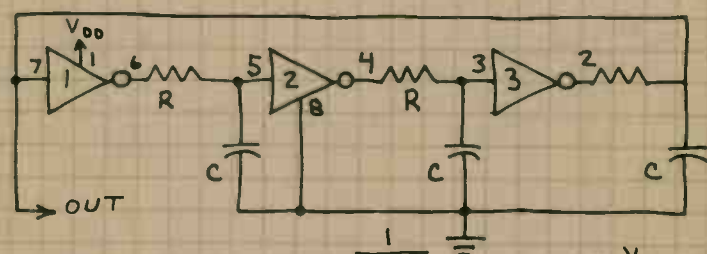
NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.

CLOCK PULSE GENERATOR



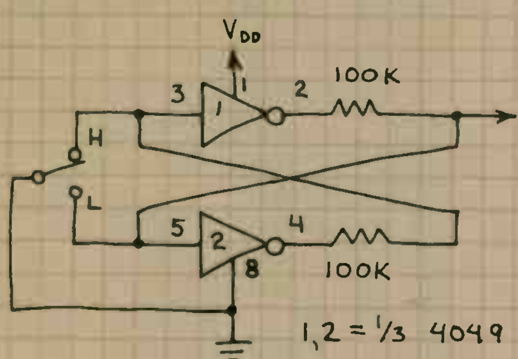
1,2 = 1/3 4049 PULSE RATE = $\frac{1}{1.4RC}$

PHASE SHIFT OSCILLATOR



OUTPUT FREQUENCY = $\frac{1}{3.3RC}$ 1,2,3 = 1/2 4049

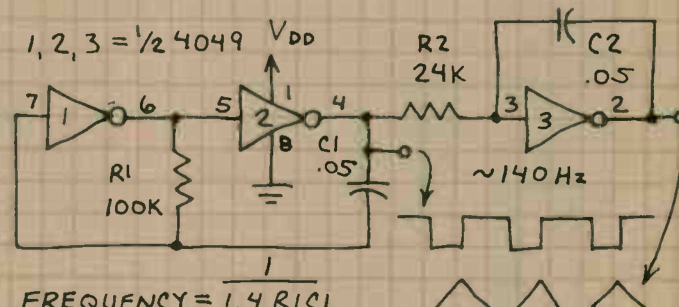
BOUNCELESS SWITCH



1,2 = 1/3 4049

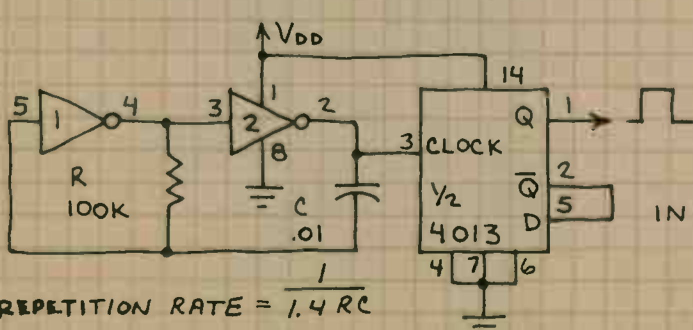
TRIANGLE WAVE SOURCE

1,2,3 = 1/2 4049



FREQUENCY = $\frac{1}{1.4\,R1C1}$

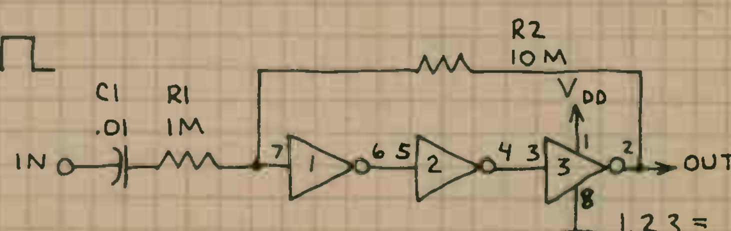
SQUARE WAVE GENERATOR



REPETITION RATE = $\frac{1}{1.4RC}$

1,2 = 1/3 4049

LINEAR 10X AMPLIFIER



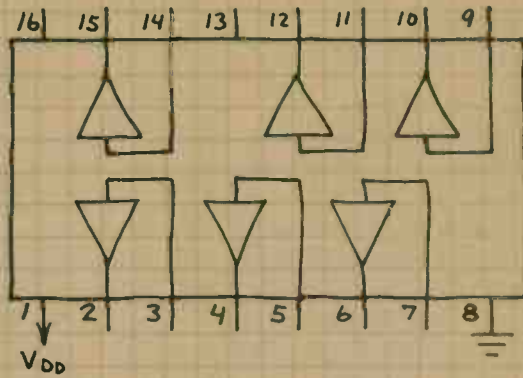
1,2,3 = 1/2 4049

NOTE THAT THE INVERTERS ARE USED IN A LINEAR MODE. GAIN = R2/R1.

HEX NON-INVERTING BUFFER
4050

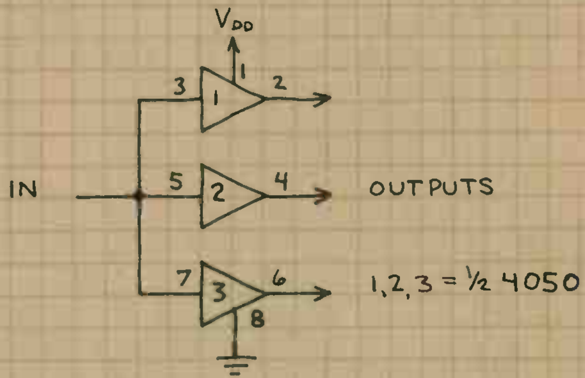
PRIMARILY INTENDED FOR INTERFACING CMOS TO TTL. SUPPLIES MORE CURRENT THAN STANDARD CMOS.

IMPORTANT: ALL UNUSED INPUTS MUST GO TO PIN 1 OR 8.

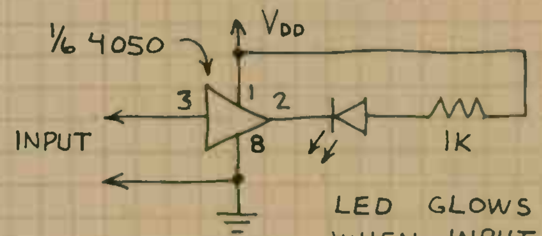


NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.

OUTPUT EXPANDER

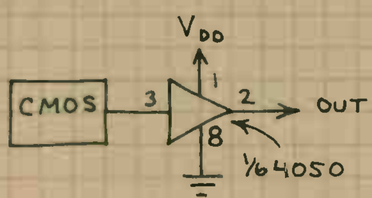


LOGIC PROBE

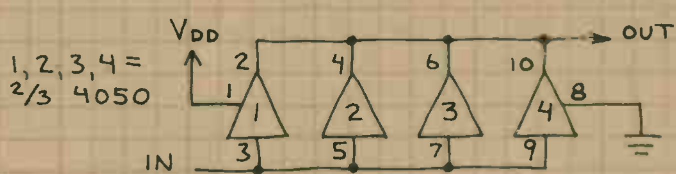


LED GLOWS WHEN INPUT IS LOW.

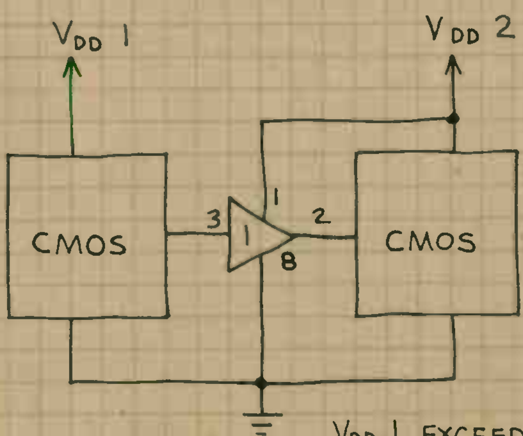
OUTPUT BUFFER



INCREASED OUTPUT DRIVE

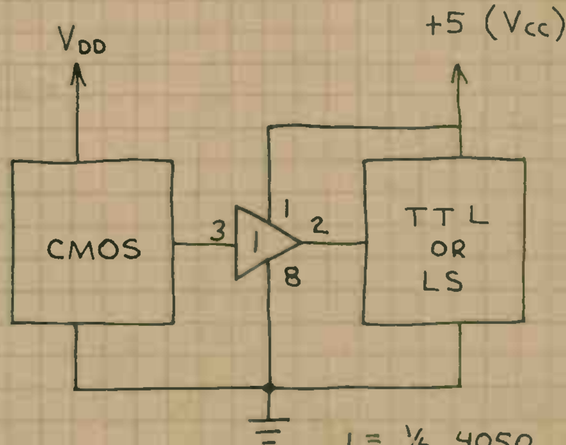


CMOS TO CMOS AT LOWER V_{DD}



V_{DD} 1 EXCEEDS V_{DD} 2.
1 = ⅙ 4050

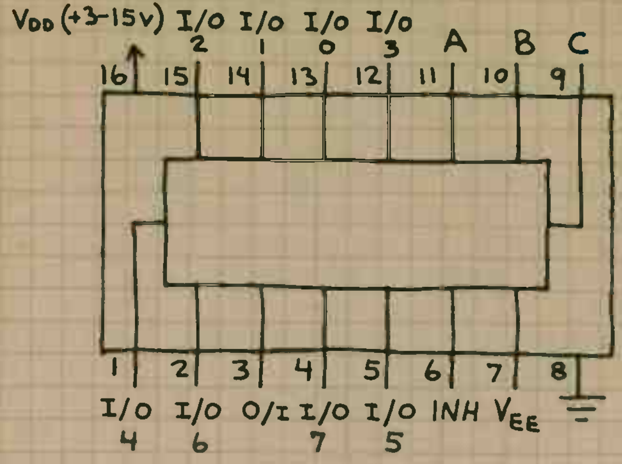
CMOS TO TTL/LS AT LOWER V_{CC}



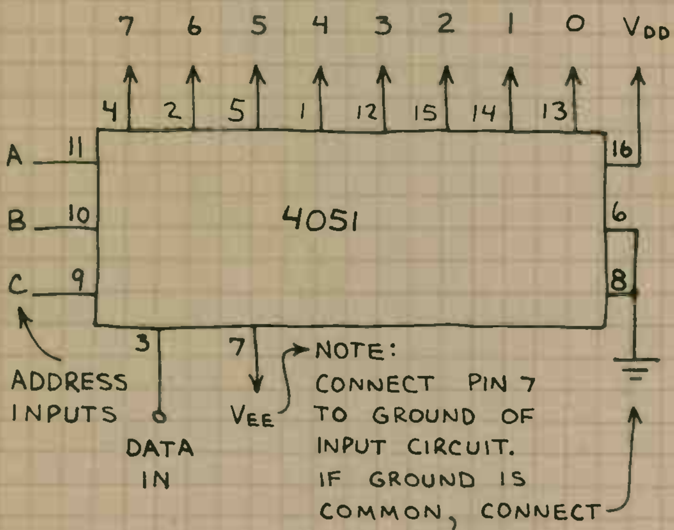
1 = ⅙ 4050

ANALOG MULTIPLEXER 4051

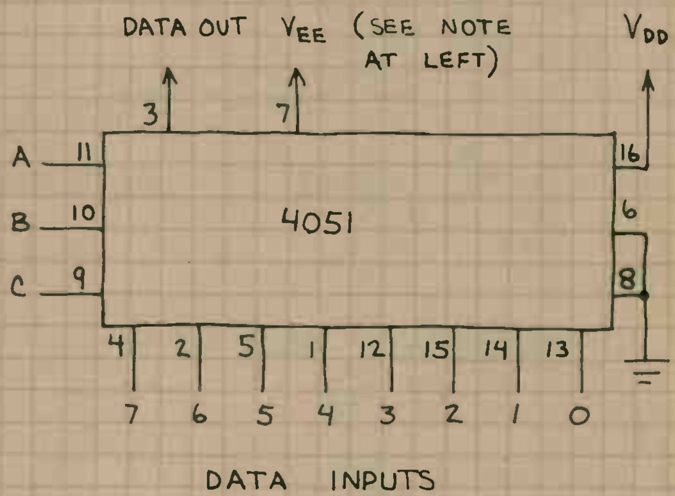
INPUT ADDRESS AT CBA SELECTS 1-OF-8 ANALOG SWITCHES. SIGNAL AT SELECTED SWITCH I/O (INPUT/OUTPUT) IS THEN APPLIED TO COMMON O/I (OUTPUT/INPUT). THE INPUT SIGNAL MUST NOT EXCEED V_{DD}. THE INHIBIT (INH) INPUT SHOULD BE GROUNDED FOR NORMAL OPERATION. ALL SWITCHES ARE OPEN WHEN INH IS HIGH.



1-OF-8 MULTIPLEXER

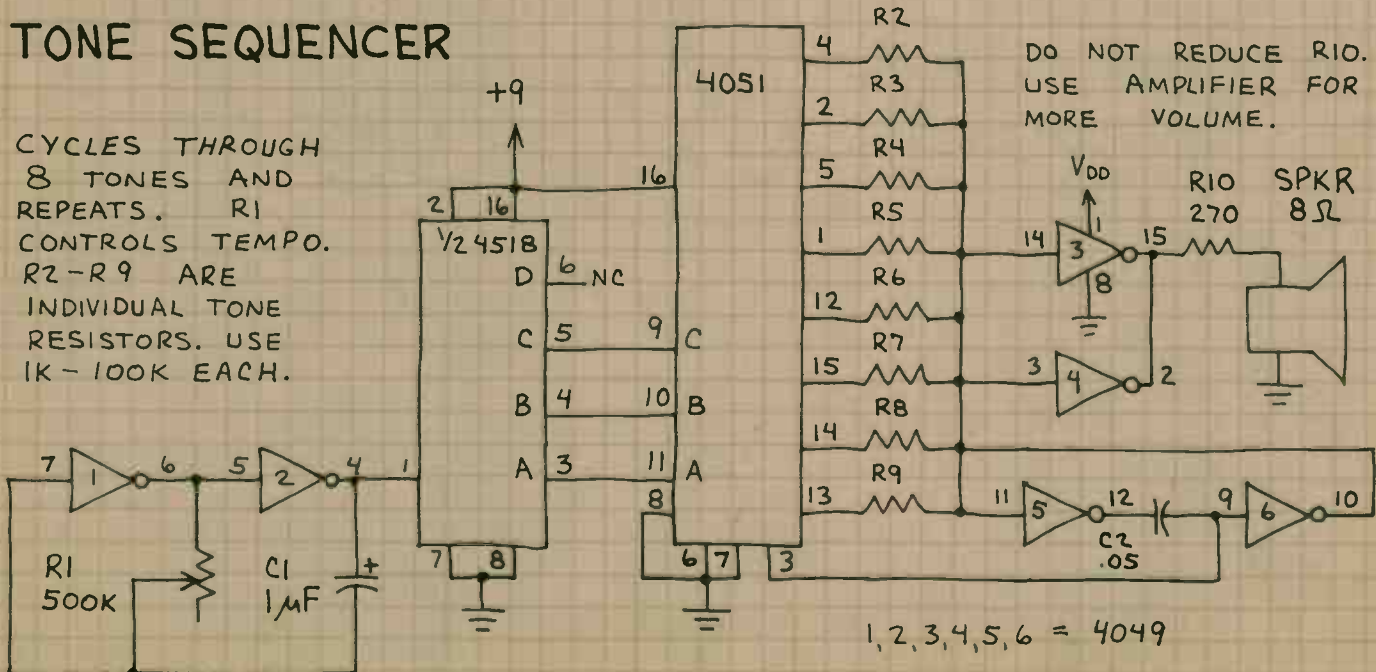


1-OF-8 DATA SELECTOR (DEMULTIPLEXER)

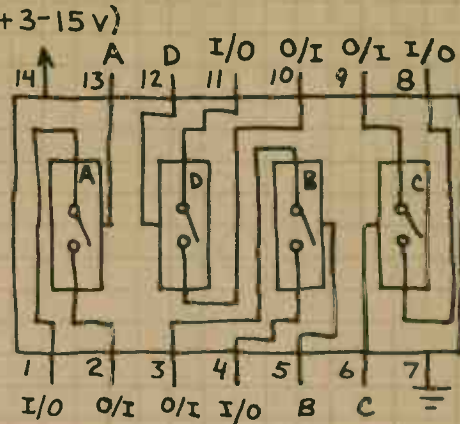


TONE SEQUENCER

CYCLES THROUGH 8 TONES AND REPEATS. R1 CONTROLS TEMPO. R2-R9 ARE INDIVIDUAL TONE RESISTORS. USE 1K-100K EACH.

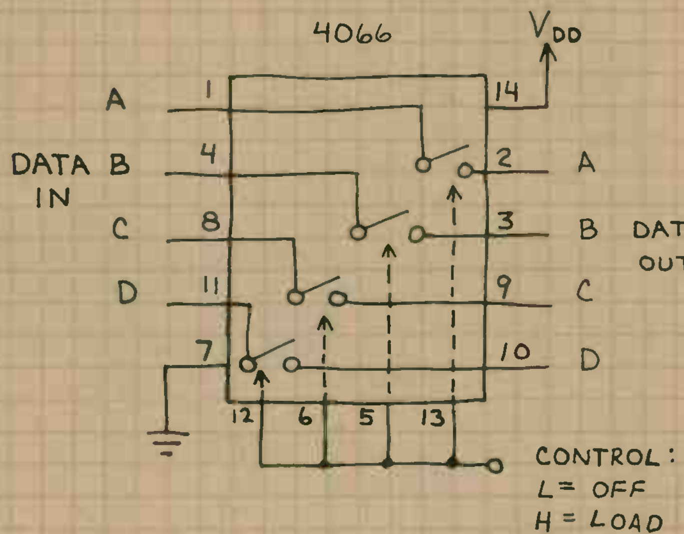


QUAD BILATERAL SWITCH
4066

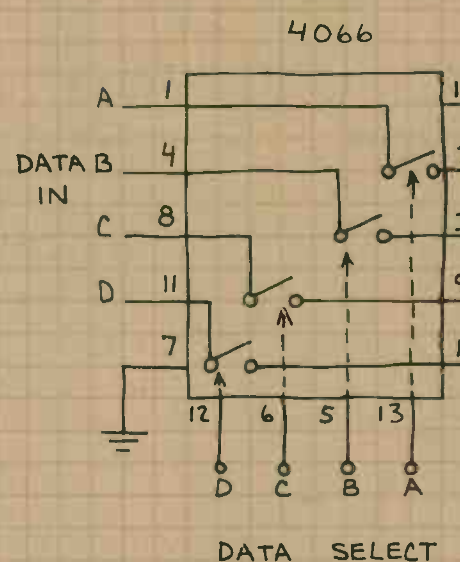


ONE OF THE MOST VERSATILE CMOS CHIPS. PINS A, B, C AND D CONTROL FOUR ANALOG SWITCHES. CLOSE A SWITCH BY CONNECTING ITS CONTROL PIN TO V_{DD}. ON RESISTANCE = 80–250 OHMS. OPEN A SWITCH BY CONNECTING ITS CONTROL PIN TO GROUND (PIN 7). OFF RESISTANCE = 10^9 OHMS. I/O (INPUT/OUTPUT) AND O/I PINS ARE REVERSIBLE.

DATA BUS CONTROL

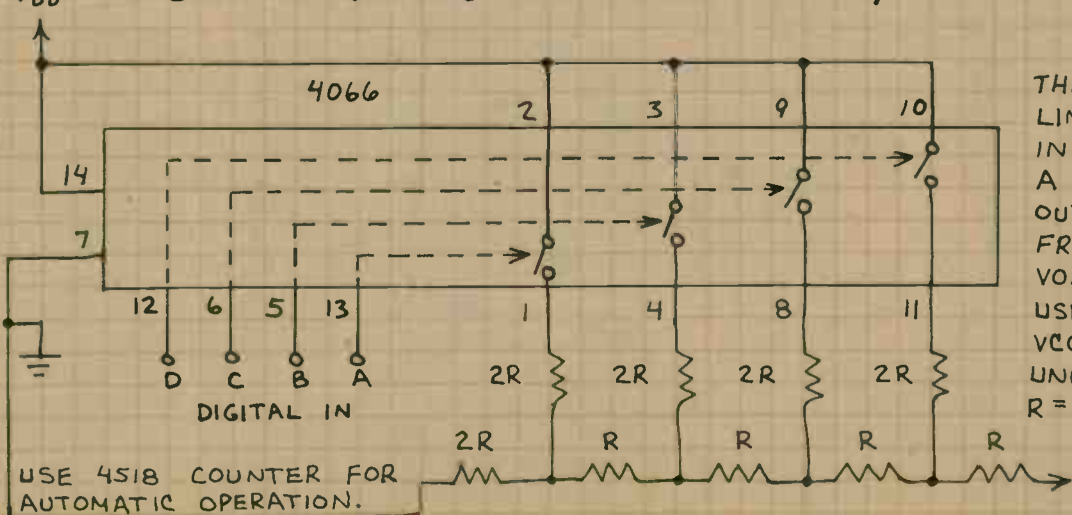


DATA SELECTOR



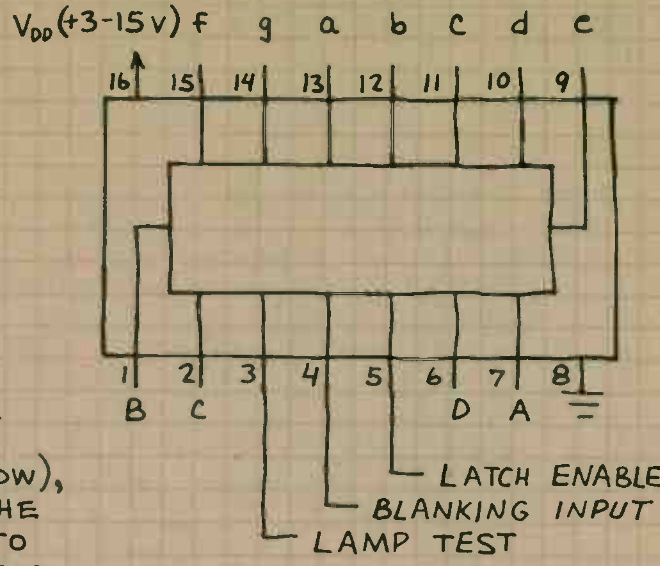
MAKE SELECTED INPUT H. KEEP ALL OTHERS L.

DIGITAL TO ANALOG (D/A) CONVERTER



THIS IS NOT A LINEAR D/A CONVERTER. INSTEAD IT PRODUCES A PSEUDO-RANDOM OUTPUT THAT RANGES FROM 3.06 – 5.62 VOLTS (V_{DD} = 9 V). USE TO DRIVE 4046 VCO OR PRODUCE UNUSUAL WAVEFORMS. R = 47K AND 2R = 100K.

BCD-TO-7-SEGMENT LATCH/DECODER/DRIVER 4511

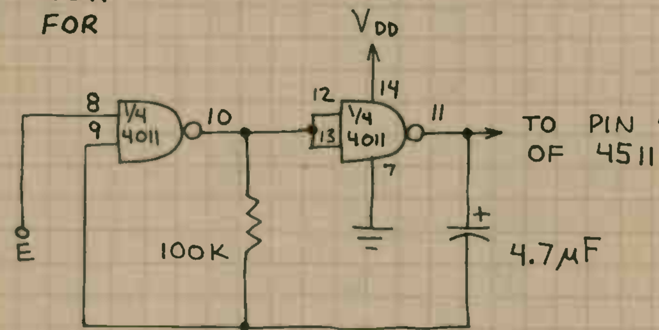


CONVERTS BCD DATA INTO FORMAT SUITABLE FOR PRODUCING DECIMAL DIGITS ON 7-SEGMENT LED DISPLAY. INCLUDES BUILT-IN 4-BIT LATCH TO STORE DATA TO BE DISPLAYED (WHEN PIN 5 IS HIGH). WHEN LATCH IS NOT USED (PIN5 LOW), THE 7-SEGMENT OUTPUTS FOLLOW THE BCD INPUTS. MAKE PIN 4 LOW TO EXTINGUISH THE DISPLAY AND HIGH FOR NORMAL OPERATION. MAKE PIN 3 LOW TO TEST THE DISPLAY AND HIGH FOR NORMAL OPERATION.

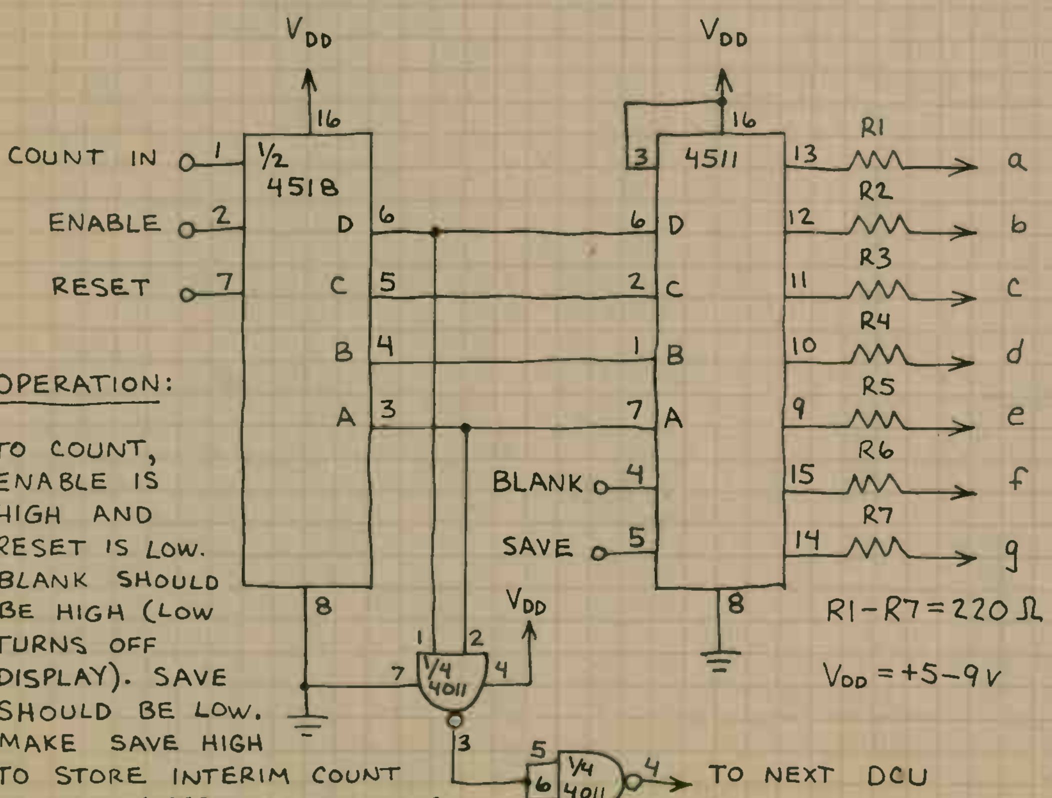
DISPLAY FLASHER

DISPLAY FLASHES ONCE PER SECOND WHEN E IS HIGH.

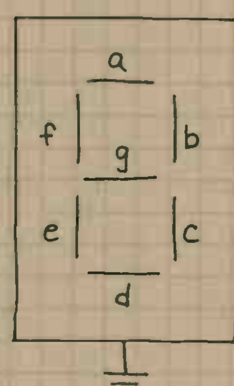
E	DISPLAY
H	FLASHES
L	OFF



DECIMAL COUNTING UNIT (DCU)



IMPORTANT: ALL INPUTS MUST GO SOMEWHERE!



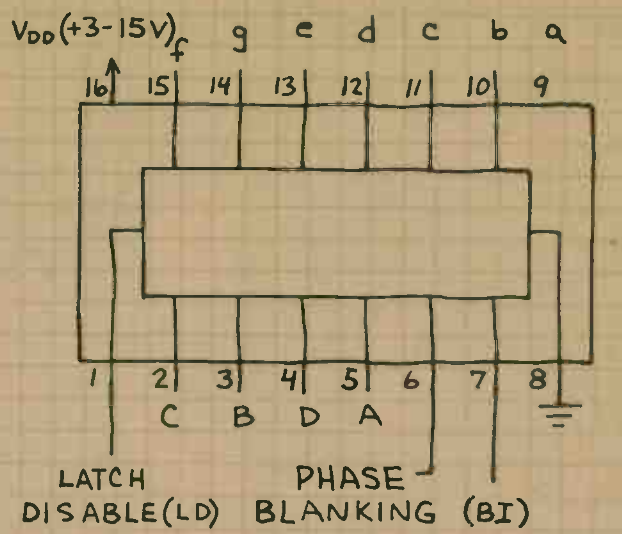
COMMON CATHODE LED DISPLAY

OPERATION:

TO COUNT, ENABLE IS HIGH AND RESET IS LOW. BLANK SHOULD BE HIGH (LOW TURNS OFF DISPLAY). SAVE SHOULD BE LOW. MAKE SAVE HIGH TO STORE INTERIM COUNT WITHOUT AFFECTING COUNTER.

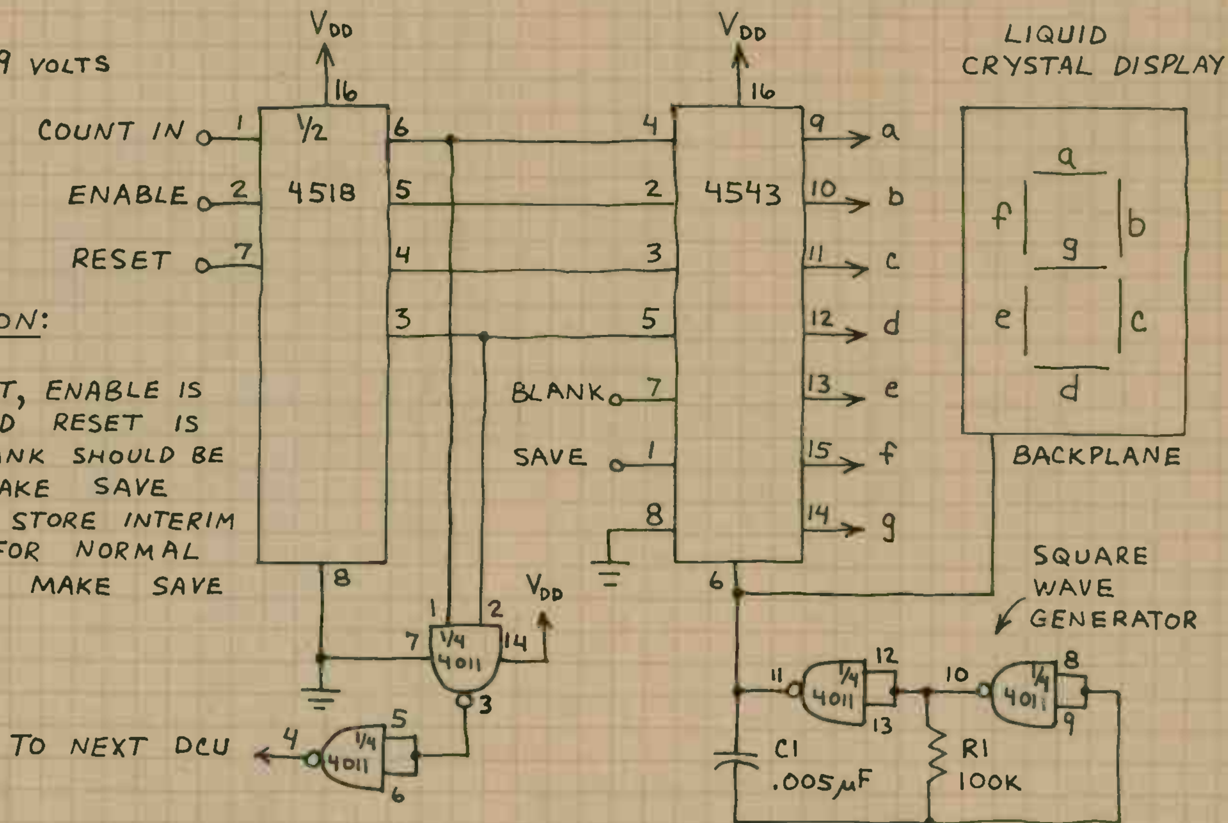
BCD-TO-7-SEGMENT LATCH/DECODER/DRIVER 4543 (14543)

DESIGNED TO DRIVE LIQUID CRYSTAL (LC) DISPLAYS BUT WILL DRIVE OTHER DISPLAYS ALSO. INCLUDES BUILT-IN 4-BIT LATCH TO STORE DATA TO BE DISPLAYED (WHEN PIN 1 IS LOW). WHEN LATCH IS NOT USED (PIN 1 HIGH), THE 7-SEGMENT OUTPUTS FOLLOW THE BCD INPUTS. MAKE PIN 7 HIGH TO BLANK THE DISPLAY AND LOW FOR NORMAL OPERATION.



LIQUID CRYSTAL DISPLAY DECIMAL COUNTING UNIT

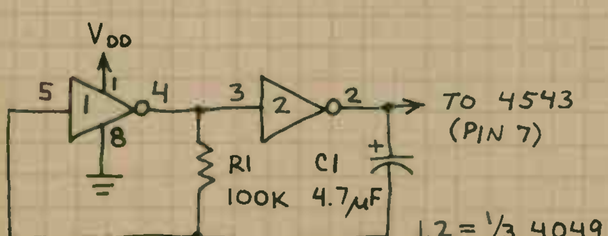
V_{DD}: +3–9 VOLTS



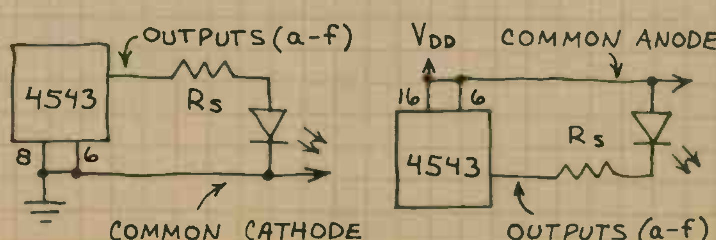
OPERATION:

TO COUNT, ENABLE IS HIGH AND RESET IS LOW. BLANK SHOULD BE LOW. MAKE SAVE LOW TO STORE INTERIM COUNT. FOR NORMAL COUNTING MAKE SAVE HIGH.

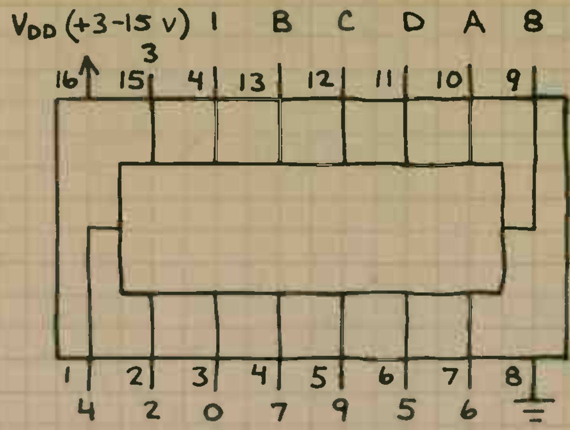
DISPLAY FLASHER



DRIVING LED DISPLAYS

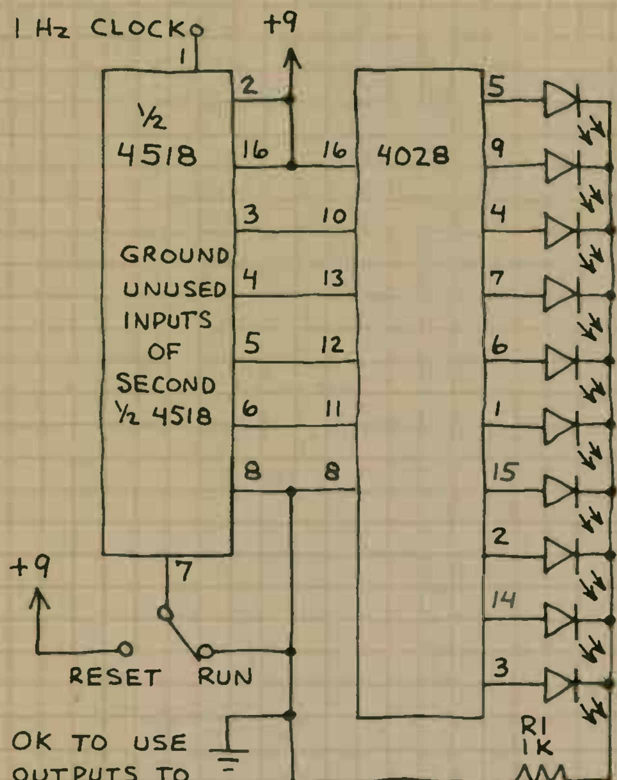


BCD-TO-DECIMAL DECODER 4028



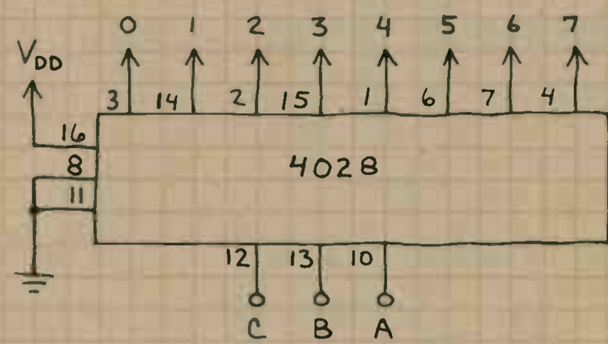
DECODES 4-BIT BCD INPUT INTO 1-OF-10 OUTPUTS. SELECTED OUTPUT GOES HIGH; ALL OTHERS STAY LOW. USE FOR DECIMAL READOUTS, SEQUENCERS, PROGRAMMABLE COUNTERS, ETC.

0-9 SECOND TIMER



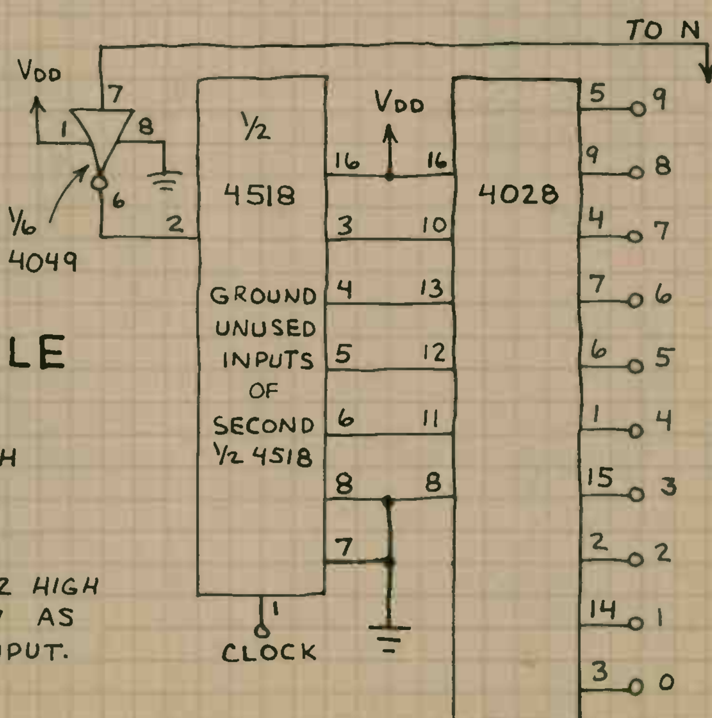
OK TO USE OUTPUTS TO CONTROL EXTERNAL LOGIC OR DEVICES.

1-OF-8 DECODER



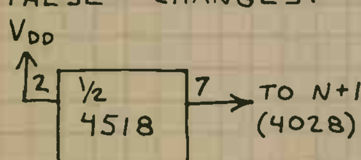
ADDRESS INPUTS

COUNT TO N AND HALT



COUNT TO N AND RECYCLE

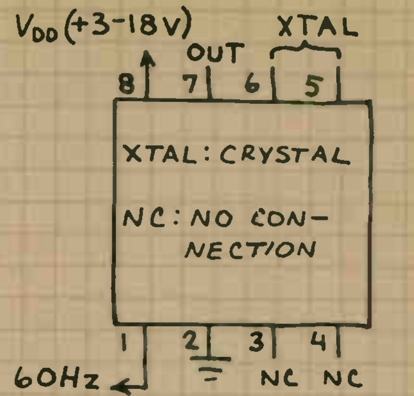
USE THE ADJACENT CIRCUIT WITH THESE CHANGES:



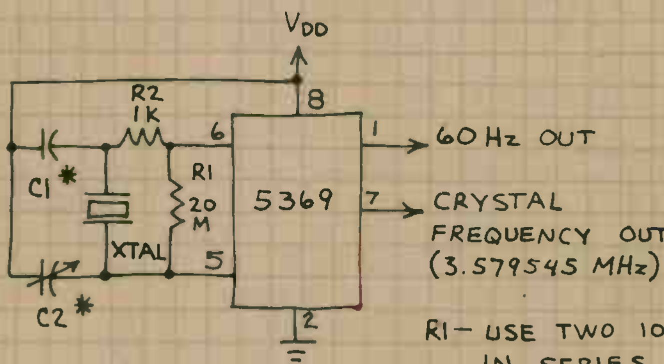
1. OMIT 4049
2. MAKE PIN 2 HIGH
3. USE PIN 7 AS CONTROL INPUT.

60-Hz TIMEBASE
MM5369 (276-1769)

PROVIDES PRECISE 60 Hz SQUARE WAVE WHEN USED WITH 3.579545 MHz COLOR TV CRYSTAL. USE FOR MOST DO-IT-YOURSELF TIMERS, CLOCKS, CONTROLLERS, FUNCTION GENERATORS. INSTALL IN SMALL CABINET FOR WORKBENCH PRECISION CLOCK.



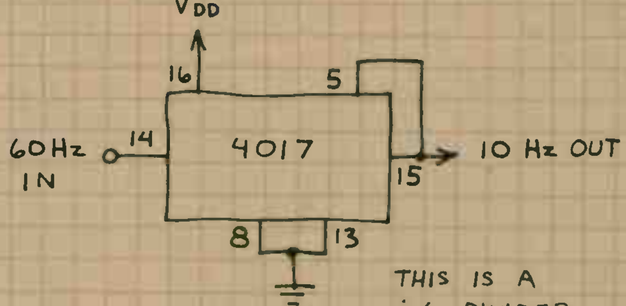
60-Hz TIMEBASE



R1 – USE TWO 10M IN SERIES.

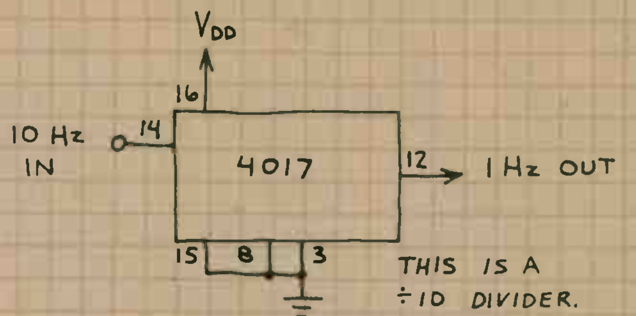
*
MOTOROLA SPECIFIES THAT C1 = 30 pF AND C2 = 6.36 pF. OK TO USE SIX 4.7 pF CAPACITORS IN PARALLEL OR 47 pF CAPACITOR FOR C1. TRY TUNABLE CAPACITOR (e.g. 5–50 pF) FOR C2. TO TUNE, CONNECT FREQUENCY METER TO PIN 7. TUNE C2 UNTIL FREQUENCY IS 3,579,545 Hz. ACCURACY FAIRLY GOOD EVEN IF YOU DON'T TUNE C2.

10-Hz TIMEBASE



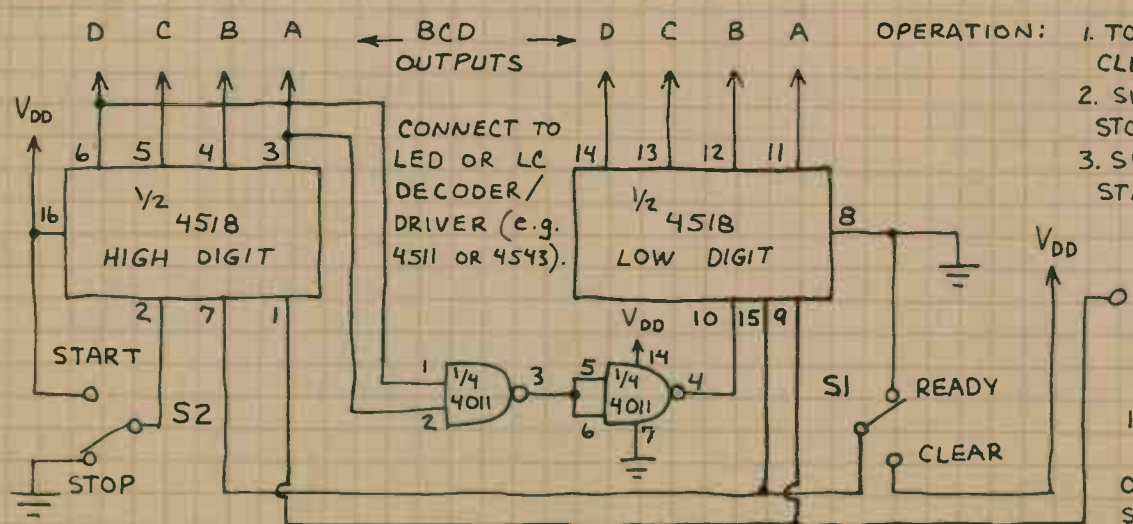
THIS IS A ÷6 DIVIDER.

1-Hz TIMEBASE



THIS IS A ÷10 DIVIDER.

DIGITAL STOPWATCH



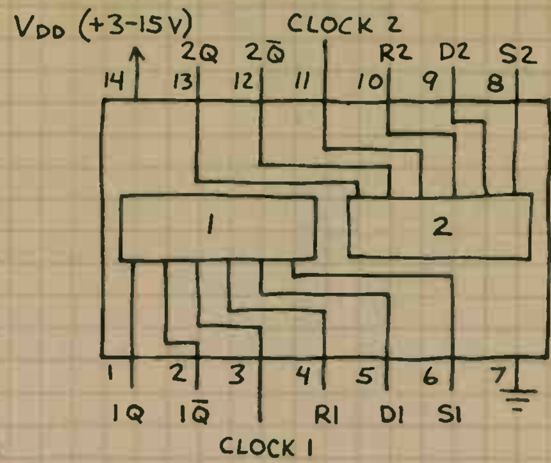
OPERATION:
1. TOGGLE S1 FROM CLEAR TO READY.
2. SWITCH S2 FROM STOP TO START.
3. SWITCH S2 FROM START TO STOP.

1 Hz = 00–99 SEC

10 Hz = 0.0–9.9 SEC

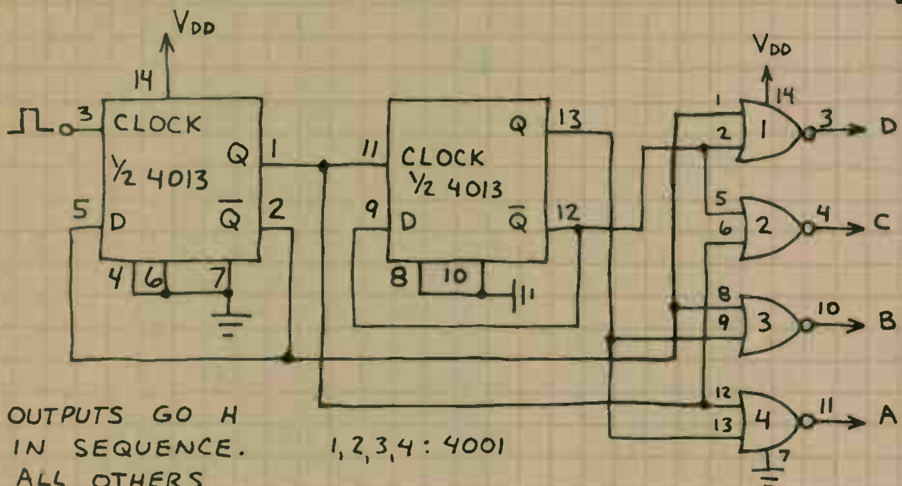
OK TO ADD MORE STAGES.

DUAL D FLIP-FLOP
4013



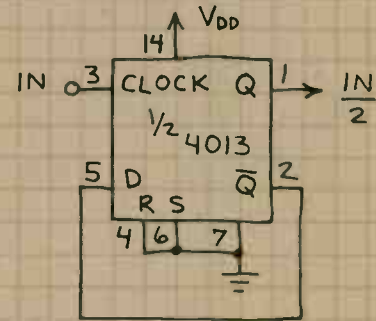
VERY VERSATILE PAIR OF D-TYPE FLIP-FLOPS. GROUND UNUSED INPUTS.

1-OF-4 SEQUENCER



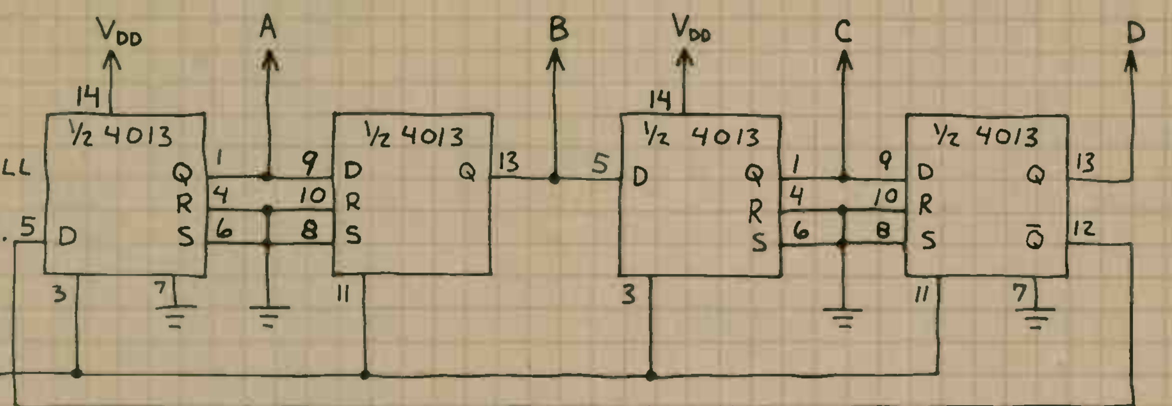
OUTPUTS GO H IN SEQUENCE. ALL OTHERS STAY L.

DIVIDE-BY-2

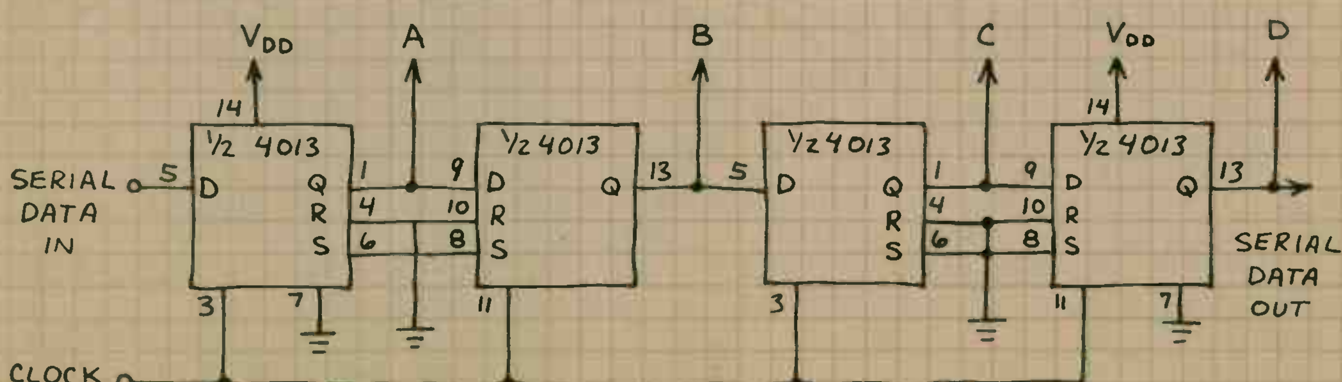


MODULO-8 COUNTER

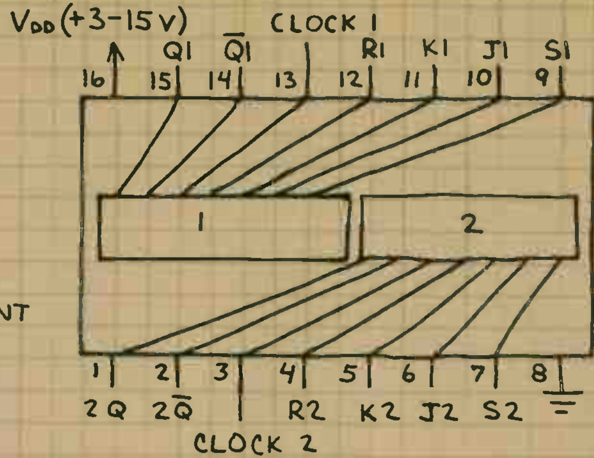
COUNTS LLLL-HLLL AND RECYCLES.



SERIAL IN/OUT, PARALLEL OUT SHIFT REGISTER

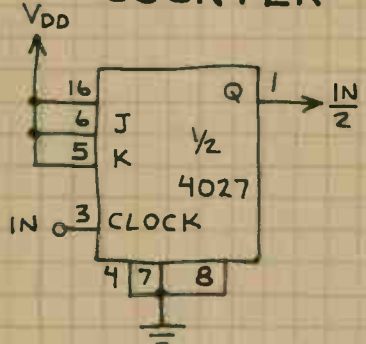


DUAL JK FLIP FLOP
4027

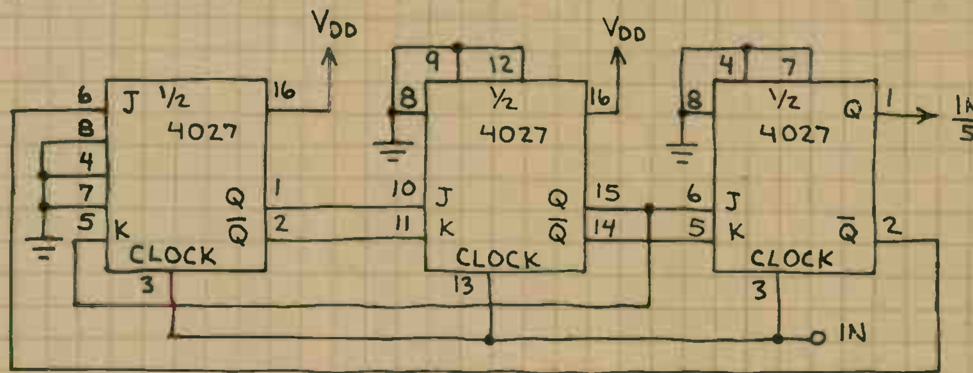


USE FOR DIVIDERS, COUNTERS AND REGISTERS. S (SET) AND R (RESET) INPUTS MUST BE LOW FOR CLOCKING TO OCCUR. MAKING S OR R HIGH SETS OR RESETS FLIP-FLOP INDEPENDENT OF CLOCK. IMPORTANT: ALL INPUTS MUST GO SOMEWHERE!

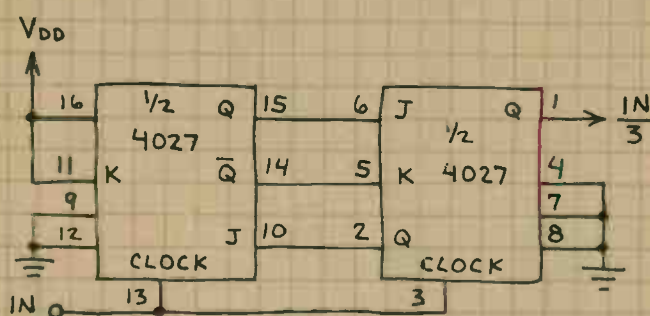
DIVIDE-BY-2 COUNTER



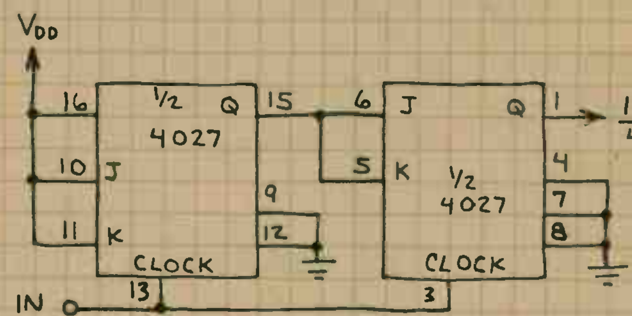
DIVIDE-BY-5 COUNTER



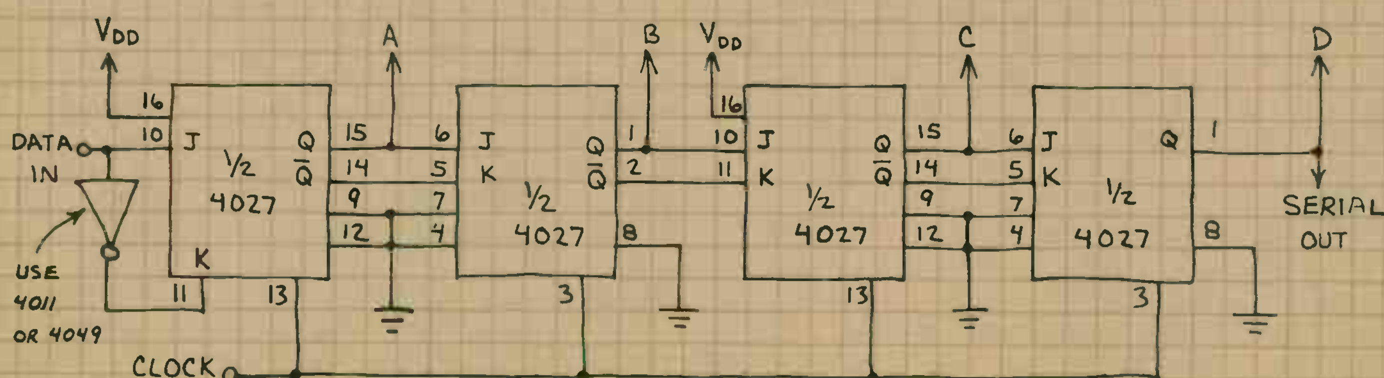
DIVIDE-BY-3 COUNTER



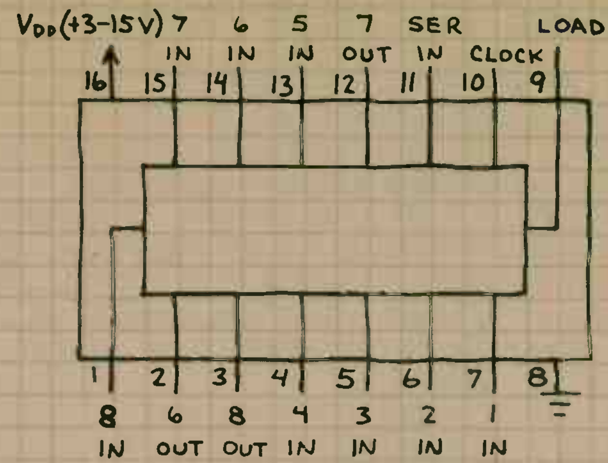
DIVIDE-BY-4 COUNTER



4-BIT SERIAL SHIFT REGISTER

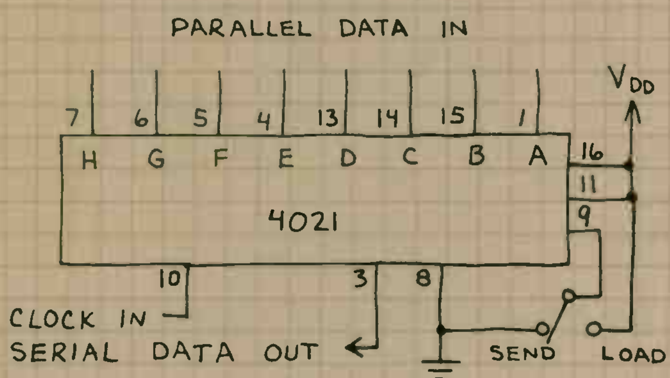


8-STAGE SHIFT REGISTER
4021



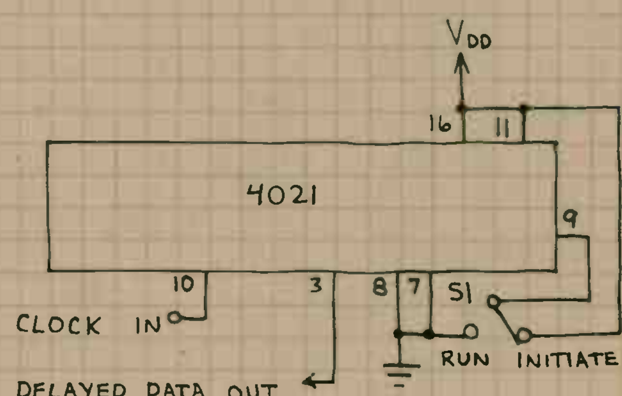
PARALLEL INPUT / SERIAL OUTPUT SHIFT REGISTER. ALSO SERIAL INPUT. DATA AT PARALLEL INPUTS IS FORCED INTO THE REGISTER IRRESPECTIVE OF THE CLOCK STATUS WHEN PIN 9 IS MADE HIGH. KEEP PIN 9 LOW FOR NORMAL OPERATION.

PARALLEL-TO-SERIAL DATA CONVERTER



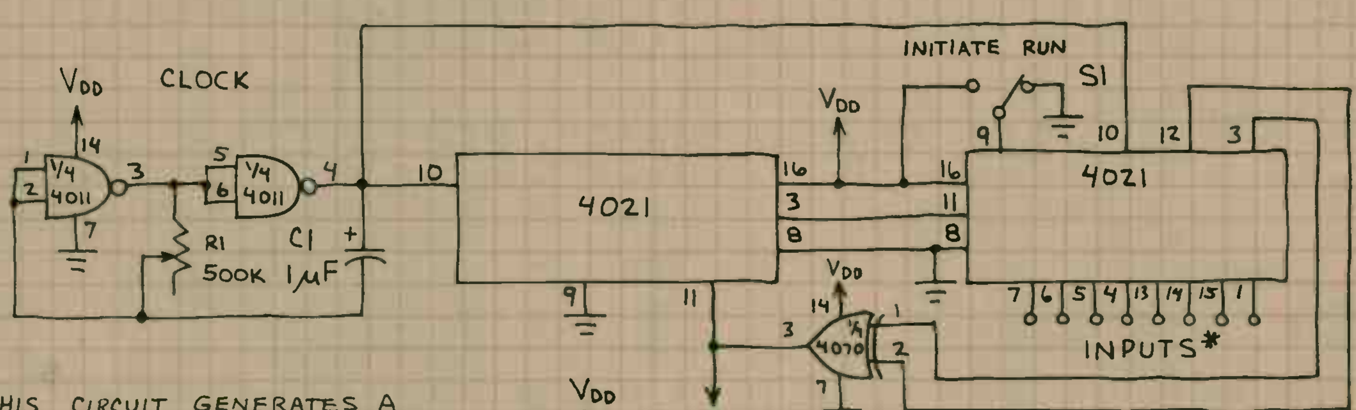
ALL 1's (H's) ARE SENT AFTER THE 8-BIT WORD IS TRANSMITTED.

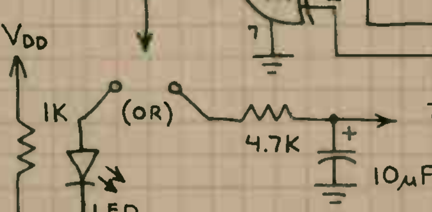
8-STAGE DELAY LINE



THE FIRST PARALLEL INPUT (PIN 7) IS GROUNDED. THIS LOADS A SINGLE L WHEN S1 IS SWITCHED TO INITIATE. THE SINGLE L BIT REACHES THE OUTPUT AFTER 8 CLOCK PULSES.

PSEUDO-RANDOM SEQUENCER

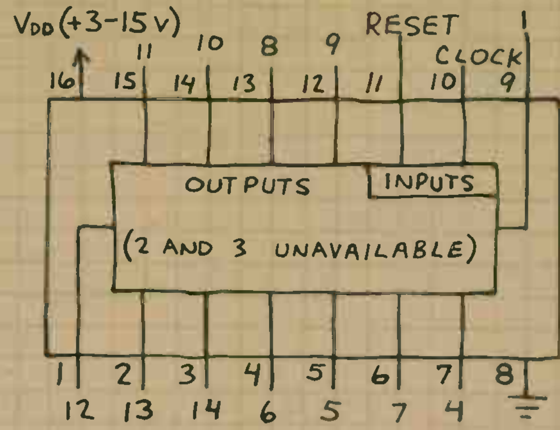




TO AUDIO AMPLIFIER FOR SOUND EFFECTS. (ADJUST R1 ; CHANGE SOUND WITH S1.)

THIS CIRCUIT GENERATES A PSEUDO-RANDOM BIT SEQUENCE AND RECYCLES.* TO CHANGE BIT PATTERN, CONNECT DIFFERENT PATTERNS OF INPUTS OF SECOND 4021 TO V_{DD} OR GROUND.

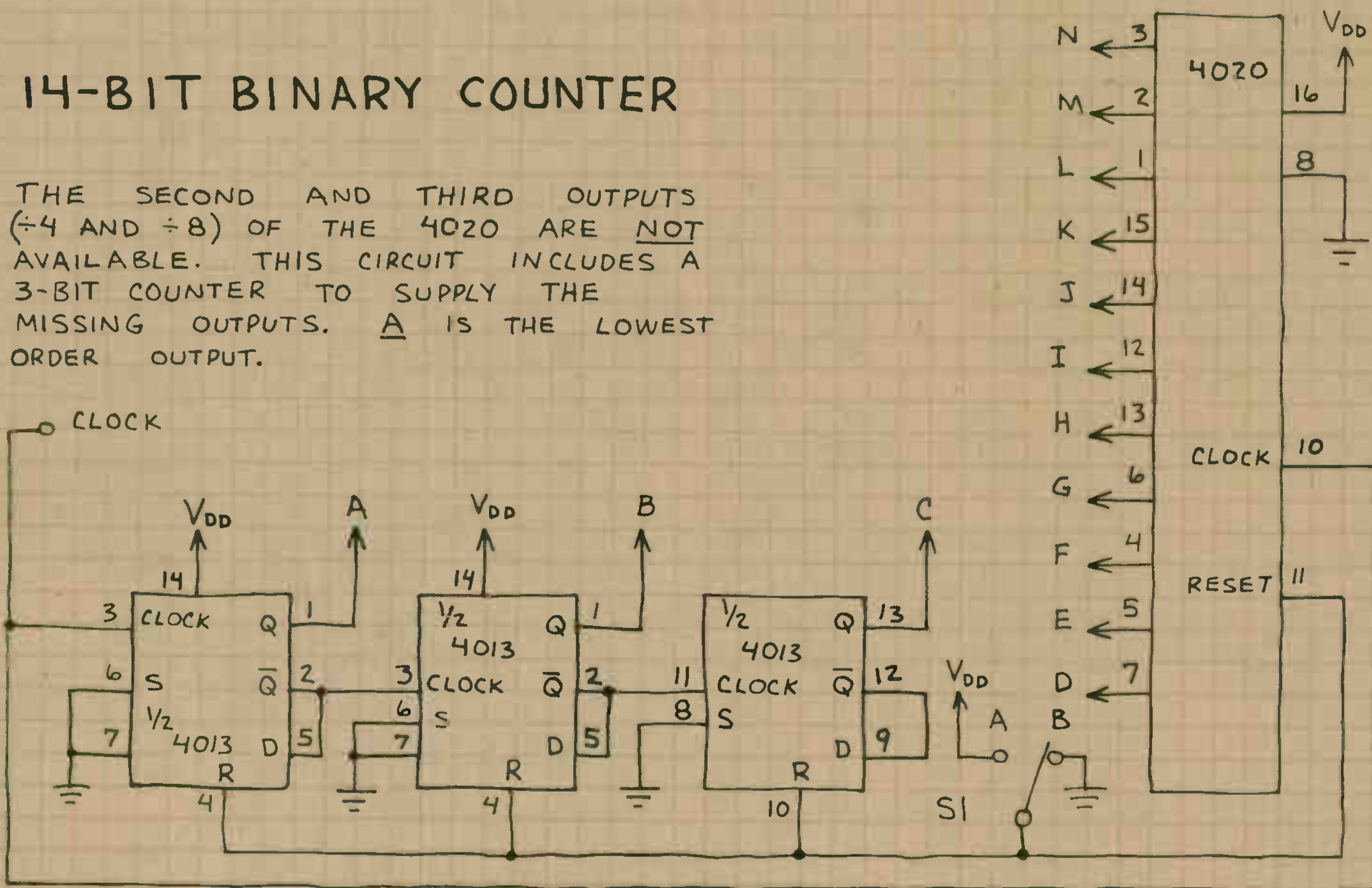
14-STAGE BINARY COUNTER
4020

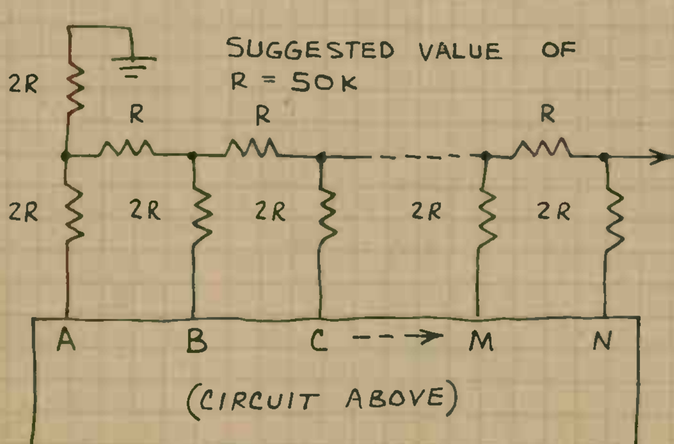


A RIPPLE COUNTER WITH CARRY OUTPUT. THE 14-STAGE BINARY COUNT IS COMPLETED IN 16,384 CLOCK PULSES. THIS MAKES POSSIBLE VERY LONG DURATION TIMERS, ASSUMING THE OUTPUTS ARE DECODED. THE OUTPUTS REQUIRE A BRIEF SETTLING TIME AFTER EACH CLOCK PULSE.

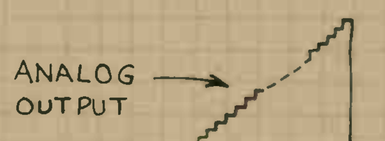
14-BIT BINARY COUNTER

THE SECOND AND THIRD OUTPUTS (÷4 AND ÷8) OF THE 4020 ARE <u>NOT</u> AVAILABLE. THIS CIRCUIT INCLUDES A 3-BIT COUNTER TO SUPPLY THE MISSING OUTPUTS. <u>A</u> IS THE LOWEST ORDER OUTPUT.



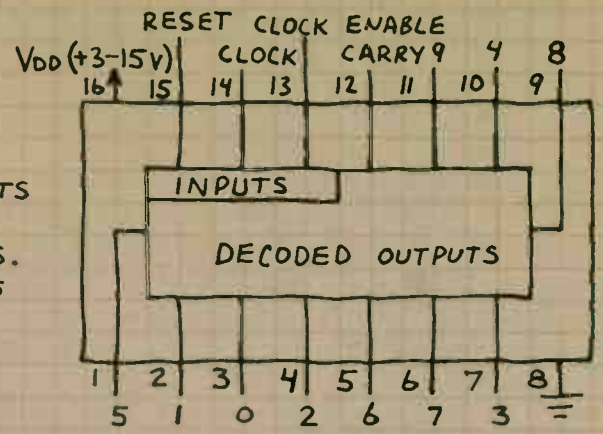


STAIRCASE GENERATOR



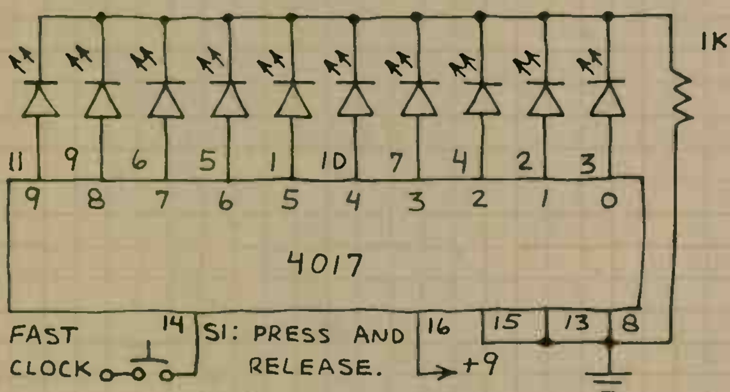
OUTPUT IS A STEPPED VOLTAGE. APPLICATIONS INCLUDE ANALOG-TO-DIGITAL CONVERSION AND WAVEFORM SYNTHESIS.

DECADE COUNTER/DECODER 4017

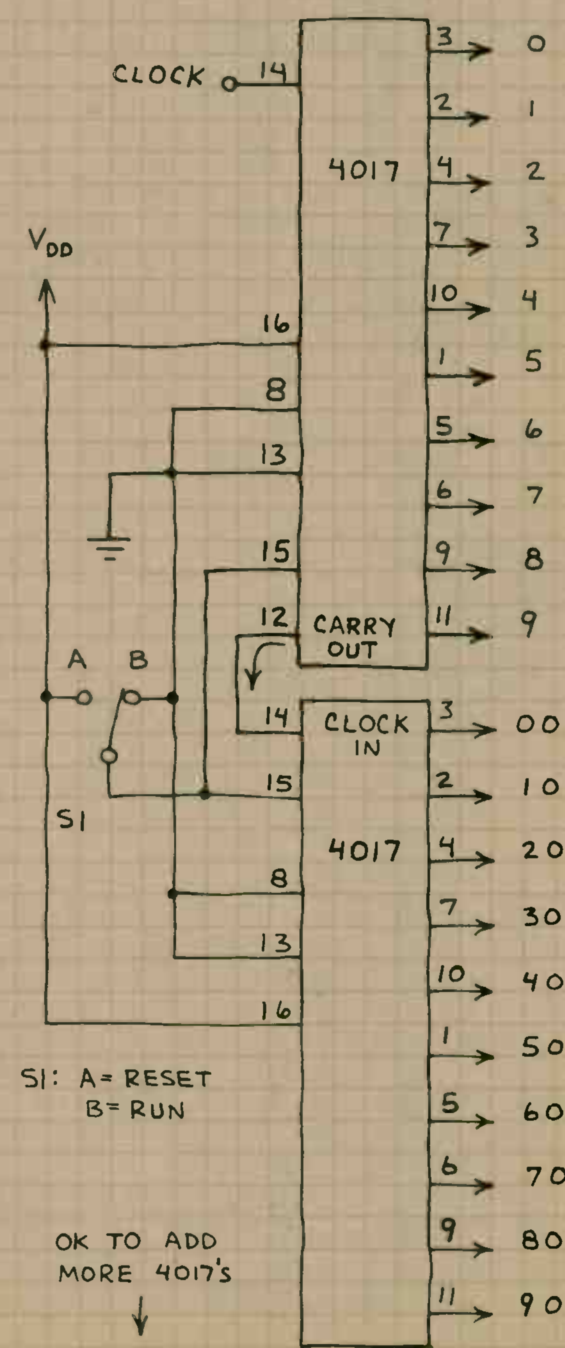


SEQUENTIALLY MAKES 1-OF-10 OUTPUTS HIGH (OTHERS STAY LOW) IN RESPONSE TO CLOCK PULSES. MANY APPLICATIONS. COUNT TAKES PLACE WHEN PINS 13 AND 15 ARE LOW.

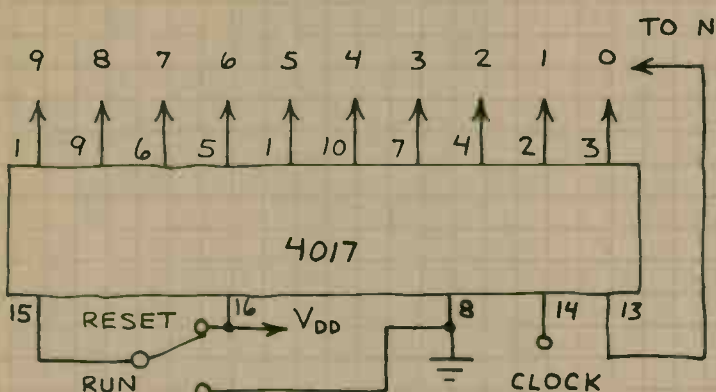
RANDOM NUMBER GENERATOR



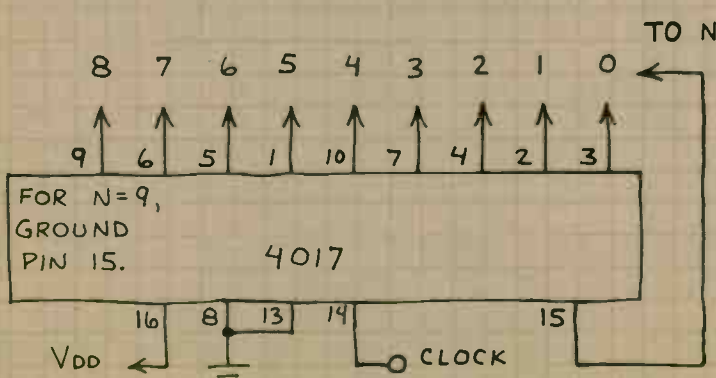
0-99 COUNTER



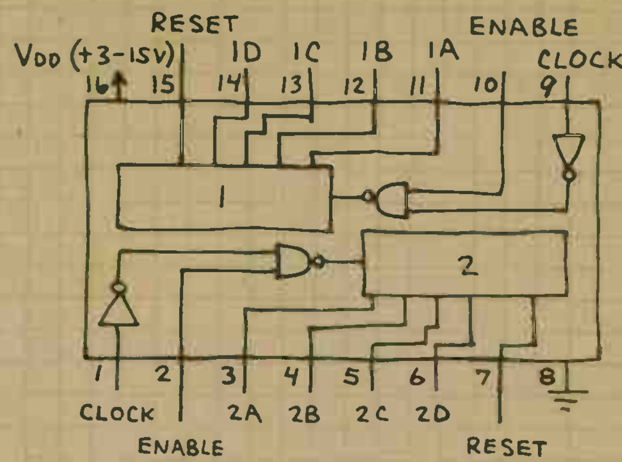
COUNT TO N AND HALT



COUNT TO N AND RECYCLE

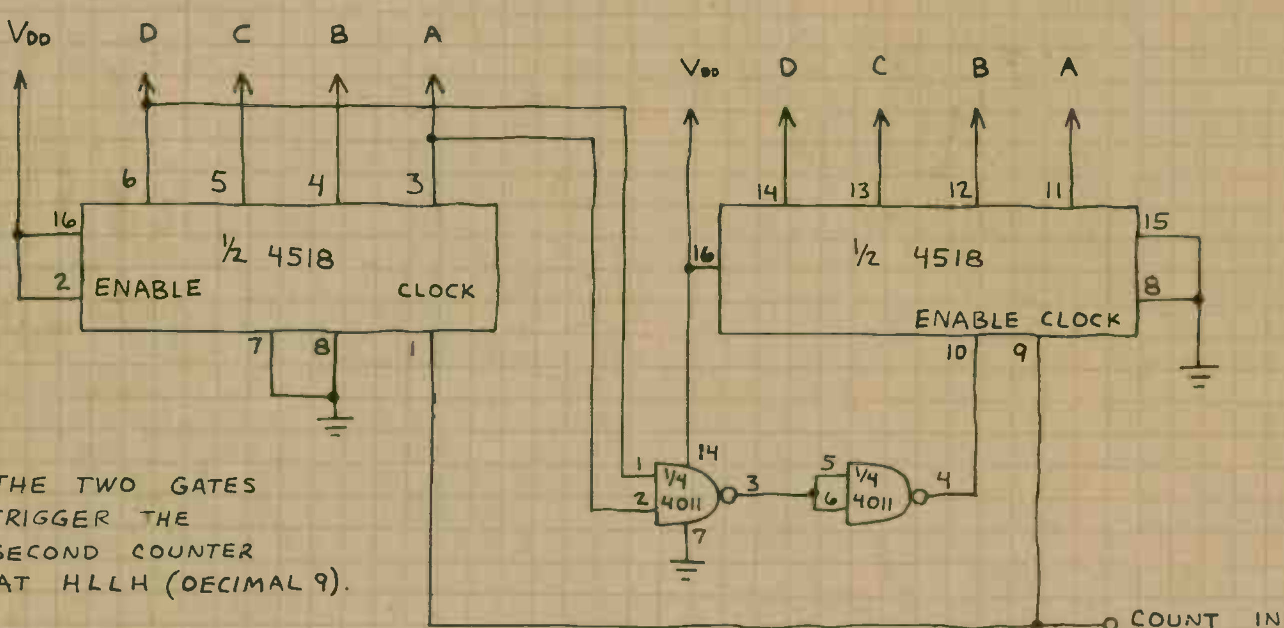


DUAL BCD COUNTER
4518



TWO SYNCHRONOUS DECADE COUNTERS IN ONE PACKAGE. WHEN ENABLE IS HIGH AND RESET IS LOW, EACH COUNTER ADVANCES ONE COUNT PER CLOCK PULSE.

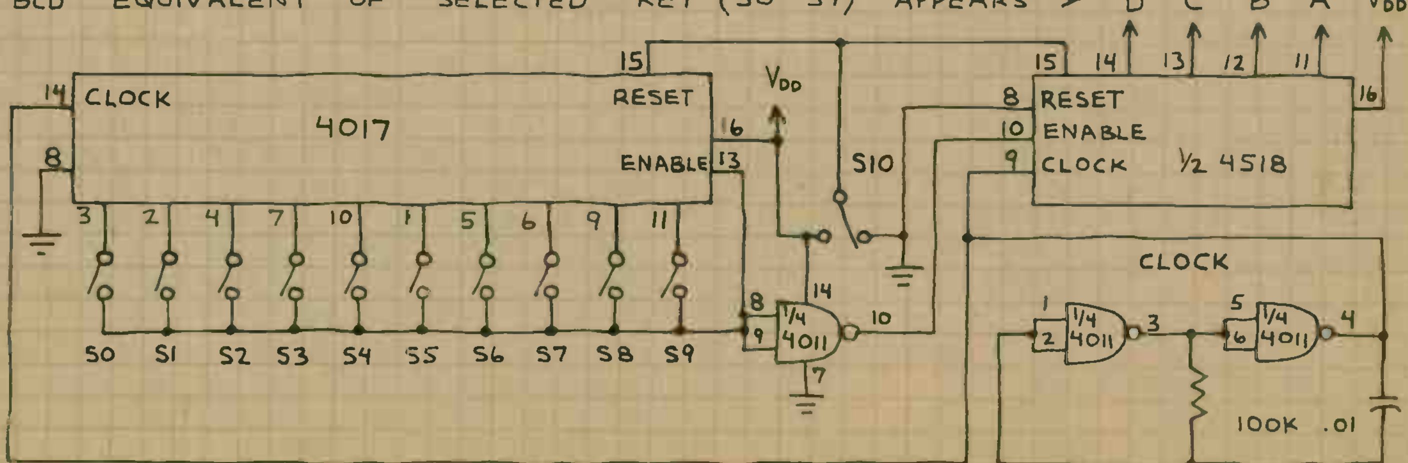
CASCADED BCD COUNTERS



THE TWO GATES TRIGGER THE SECOND COUNTER AT HLLH (DECIMAL 9).

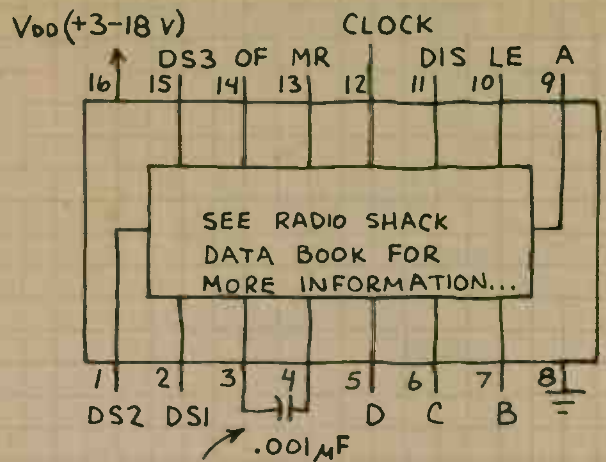
BCD KEYBOARD ENCODER

PRESS S0–S9, THEN TOGGLE RESET SWITCH S10 TO VDD AND BACK TO GROUND. BCD EQUIVALENT OF SELECTED KEY (S0–S9) APPEARS →



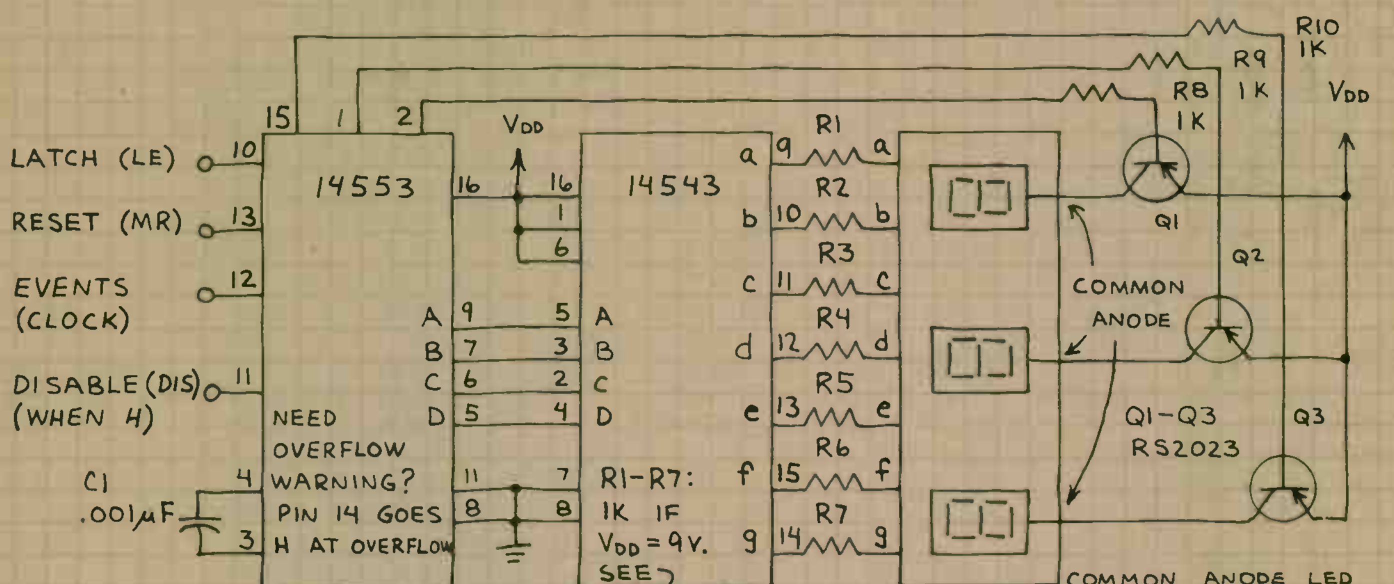
3-DIGIT BCD COUNTER
MC14553

COMPLETE 3-DIGIT COUNTER. USE FOR DO-IT-YOURSELF EVENT AND FREQUENCY COUNTERS. BEGINNERS: GET SOME PRACTICAL CIRCUIT EXPERIENCE BEFORE USING THIS CHIP. PIN EXPLANATIONS: DS (DIGIT SELECT) 1, 2, 3 — SEQUENTIALLY STROBES READOUTS. LE — LATCH ENABLE (WHEN H). DIS — INHIBITS INPUT WHEN H. CLOCK — INPUT. MR — MASTER RESET (WHEN H). OF — OVERFLOW. A, B, C, D — BCD OUTPUTS.



(FOR DIGIT SELECT OSCILLATOR)

3-DIGIT EVENT COUNTER

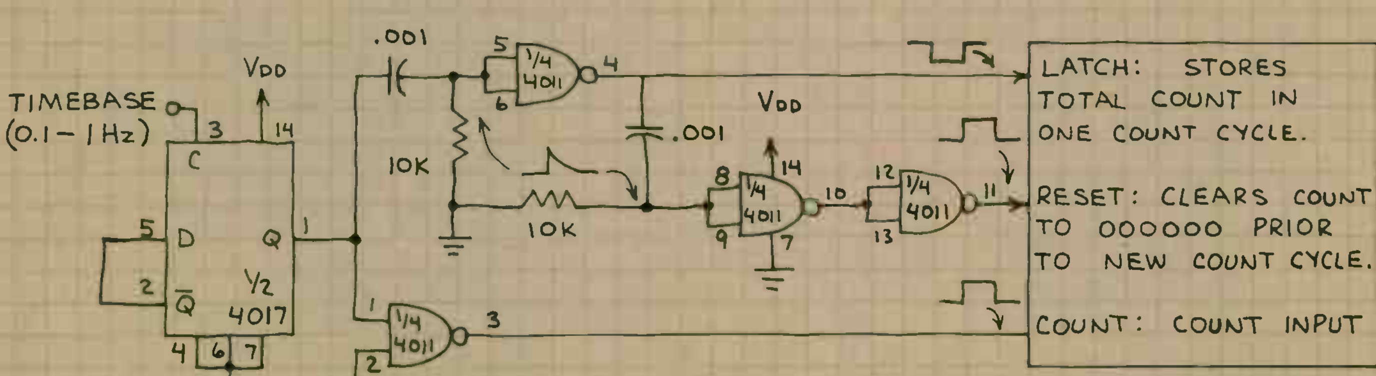


OK TO USE LIQUID CRYSTAL DISPLAY OR COMMON CATHODE LED DISPLAY. SEE 14543 FOR DETAILS.

SELECT R1-R7 SO LED CURRENT DOES NOT EXCEED 10 mA.

COMMON ANODE LED DISPLAYS. USE MULTI-DIGIT DISPLAY OR WIRE TOGETHER MATCHING CATHODES OF 3 DISPLAYS.

6-DIGIT FREQUENCY COUNTER

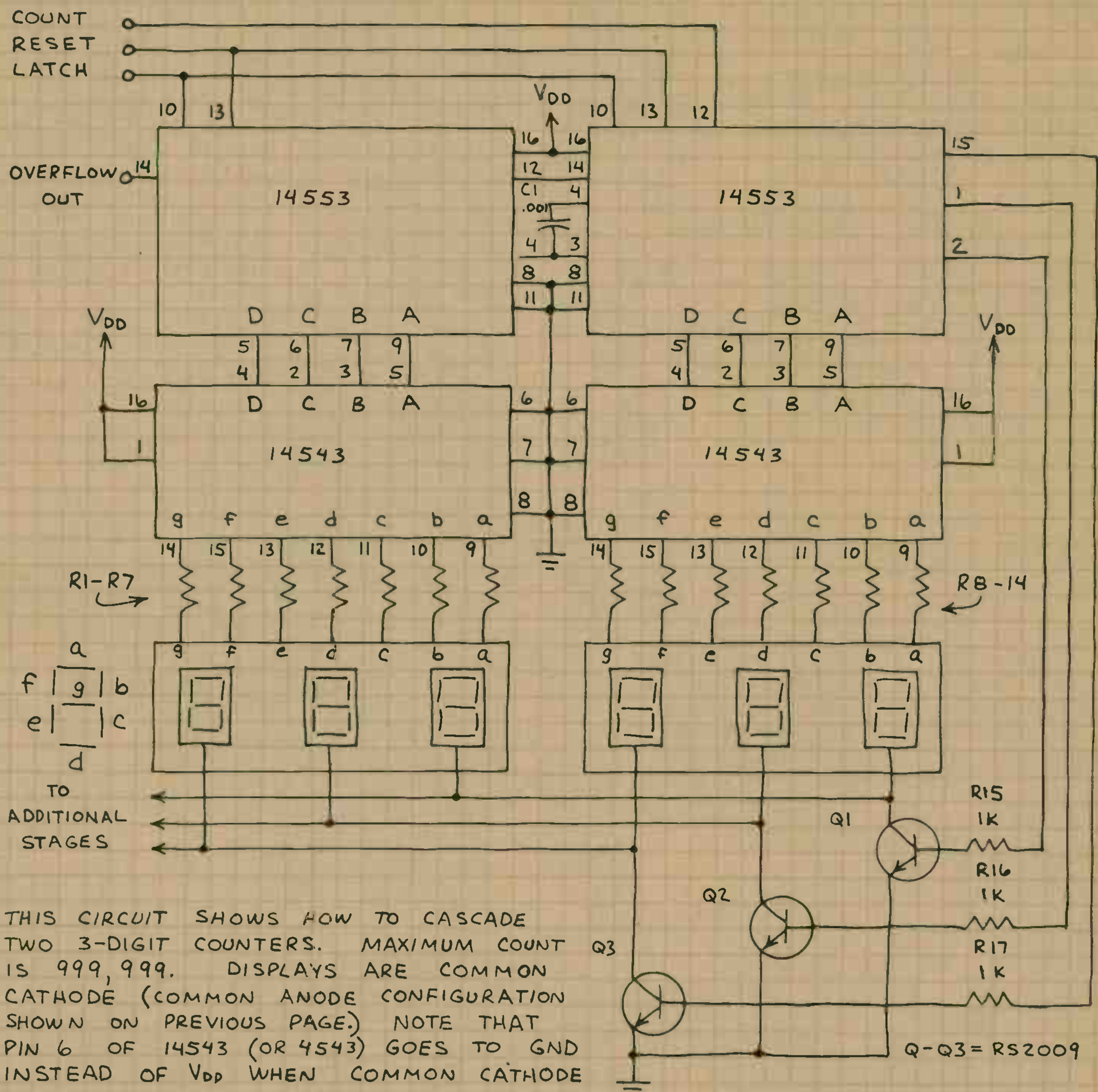


SEE NEXT PAGE FOR MORE INFO...

6-DIGIT COUNTER (FACING PAGE)

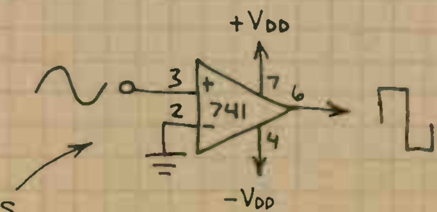
3-DIGIT BCD COUNTER (CONTINUED)
MC14553

6-DIGIT COUNTER



THIS CIRCUIT SHOWS HOW TO CASCADE TWO 3-DIGIT COUNTERS. MAXIMUM COUNT IS 999,999. DISPLAYS ARE COMMON CATHODE (COMMON ANODE CONFIGURATION SHOWN ON PREVIOUS PAGE.) NOTE THAT PIN 6 OF 14543 (OR 4543) GOES TO GND INSTEAD OF V_{DD} WHEN COMMON CATHODE DISPLAY IS USED.

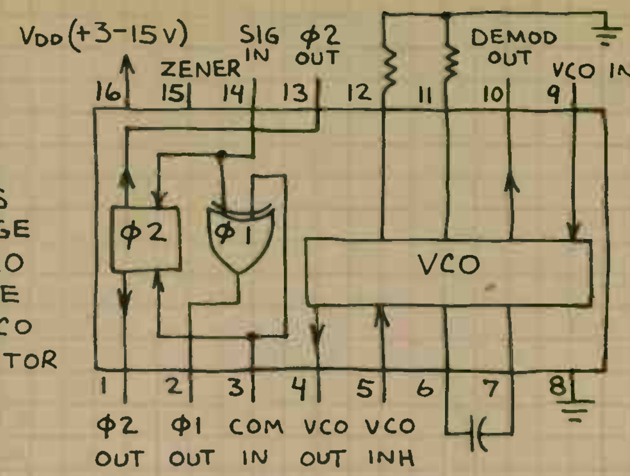
INPUT BUFFER



FREQUENCY COUNTER:

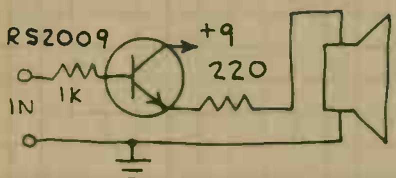
USE INPUT AND CONTROL CIRCUIT ON PREVIOUS PAGE. INPUT FREQUENCY SHOULD NOT EXCEED V_{DD}. NON-SQUARE WAVE INPUTS MAY REQUIRE INPUT TAILORING. USE COMPARATOR TO SHARPEN SLOW RISING WAVES.

PHASE-LOCKED LOOP (PLL) 4046



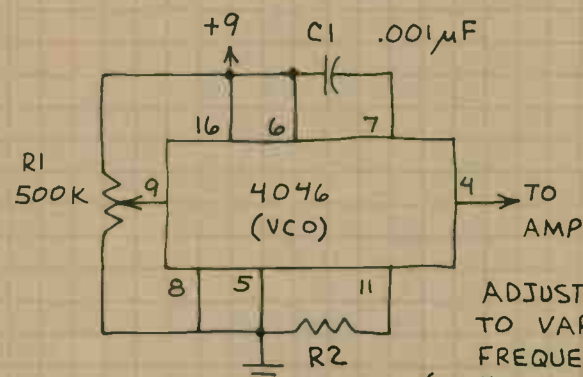
EXCEPTIONALLY VERSATILE CHIP. CONTAINS TWO PHASE COMPARATORS AND VOLTAGE CONTROLLED OSCILLATOR (VCO). USE VCO AND ONE PHASE COMPARATOR TO MAKE PLL. CIRCUITS ON THIS PAGE USE VCO ONLY. SEE RADIO SHACK SEMICONDUCTOR REFERENCE HANDBOOK FOR MORE INFORMATION.

SPEAKER AMPLIFIER*



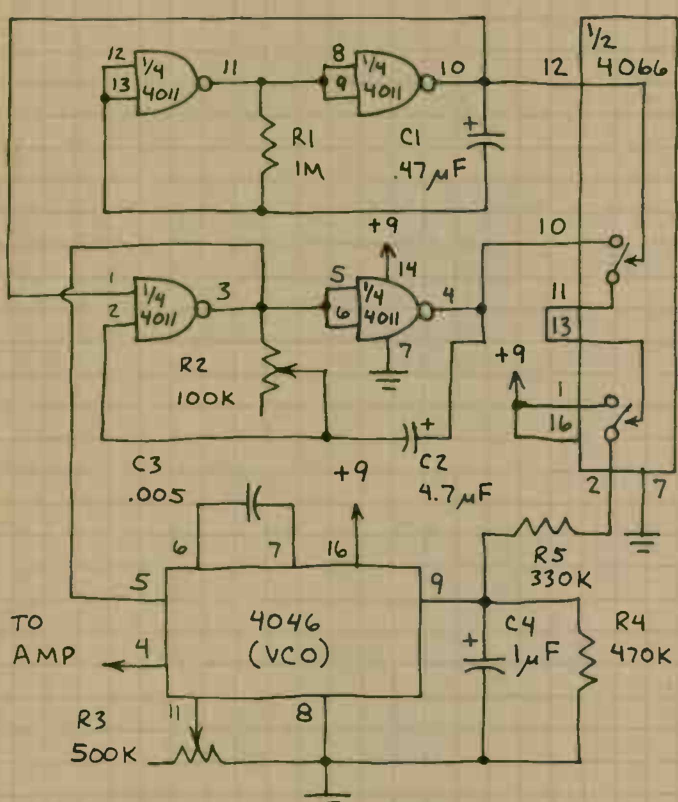
*USE WITH CIRCUITS ON THIS PAGE.

TUNABLE OSCILLATOR



ADJUST R1 TO VARY FREQUENCY (0.5 Hz → 18.5 KHz)

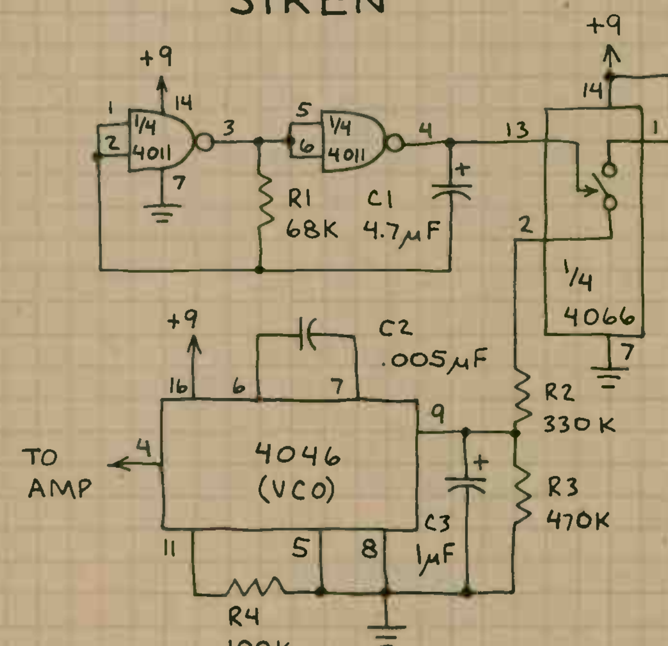
CHIRP BURST SEQUENCER



R2: ADJUST FOR 1-4 CHIRPS PER CYCLE. CHIRPS WILL HAVE DIFFERENT FREQUENCIES.

R3: CONTROLS PITCH OF CHIRPS. FOR TONES INSTEAD OF CHIRPS, CONNECT TO PIN 12 INSTEAD OF PIN 11.

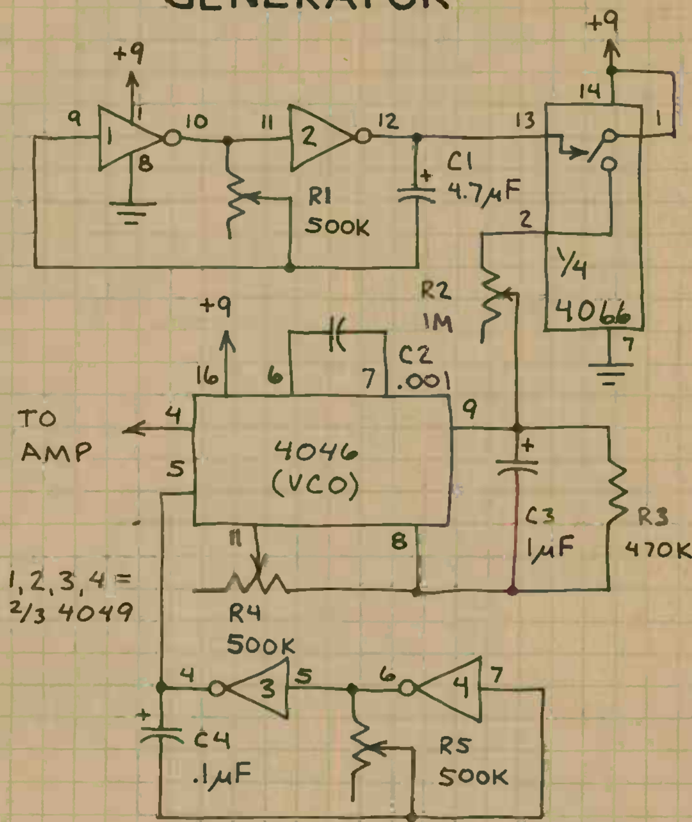
SIREN



CHANGE R1 OR C1 TO ALTER CYCLE TIME.
CHANGE R4 OR C2 TO ALTER FREQUENCY.
CHANGE R3 OR C3 TO ALTER WAIL.

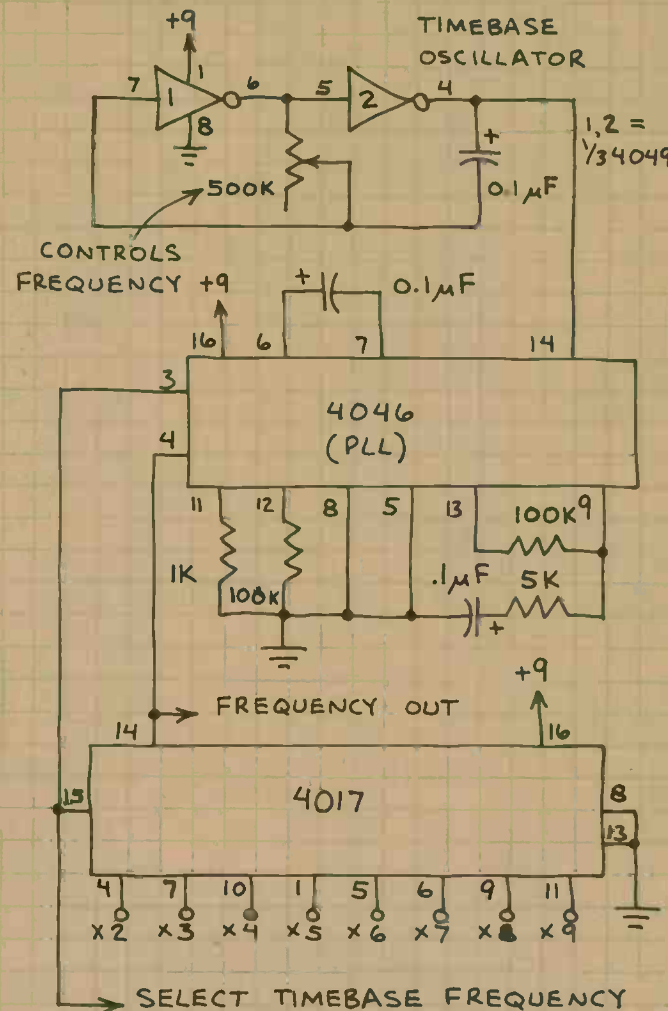
PHASE LOCKED LOOP (CONTINUED)
4046

SOUND EFFECTS GENERATOR



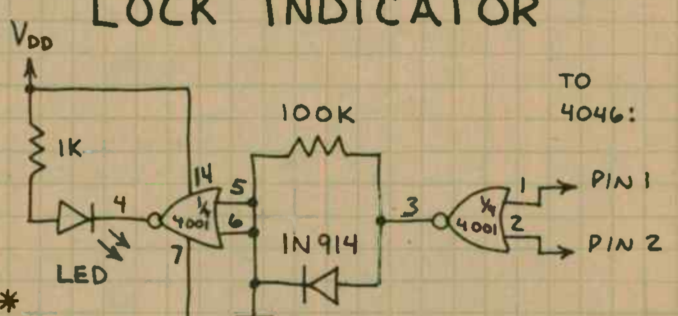
PRODUCES FASCINATING VARIETY OF UNDULATING AND CHOPPED TONES. R1 CONTROLS CYCLE TIME. R2 CONTROLS DELAY TIME. R4 CONTROLS FREQUENCY RANGE. R5 CONTROLS CHOPPING RATE. CHANGING R5's SETTING GIVES MOST DRAMATIC RESULTS.

FREQUENCY SYNTHESIZER



SELECT TIMEBASE FREQUENCY MULTIPLICATION FACTOR. SET TIMEBASE TO ~100 Hz.

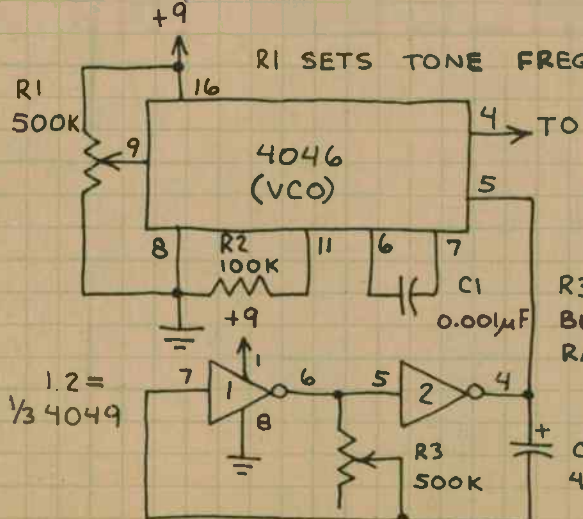
LOCK INDICATOR *



* USE TO VERIFY LOCK OF 4046 IN PLL MODE.

LED GLOWS OR FLICKERS WHEN 4046 IN PLL MODE IS OUT OF LOCK.

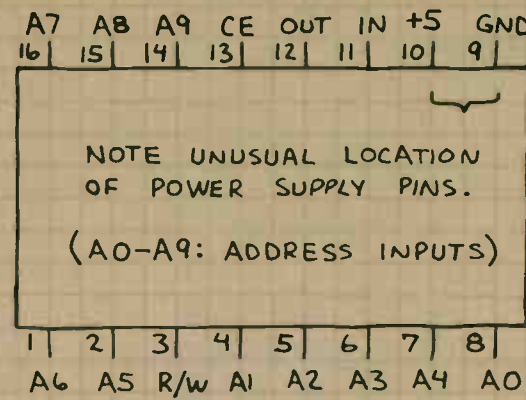
TONE BURST GENERATOR



R1 SETS TONE FREQUENCY.

R3 SETS BURST RATE.

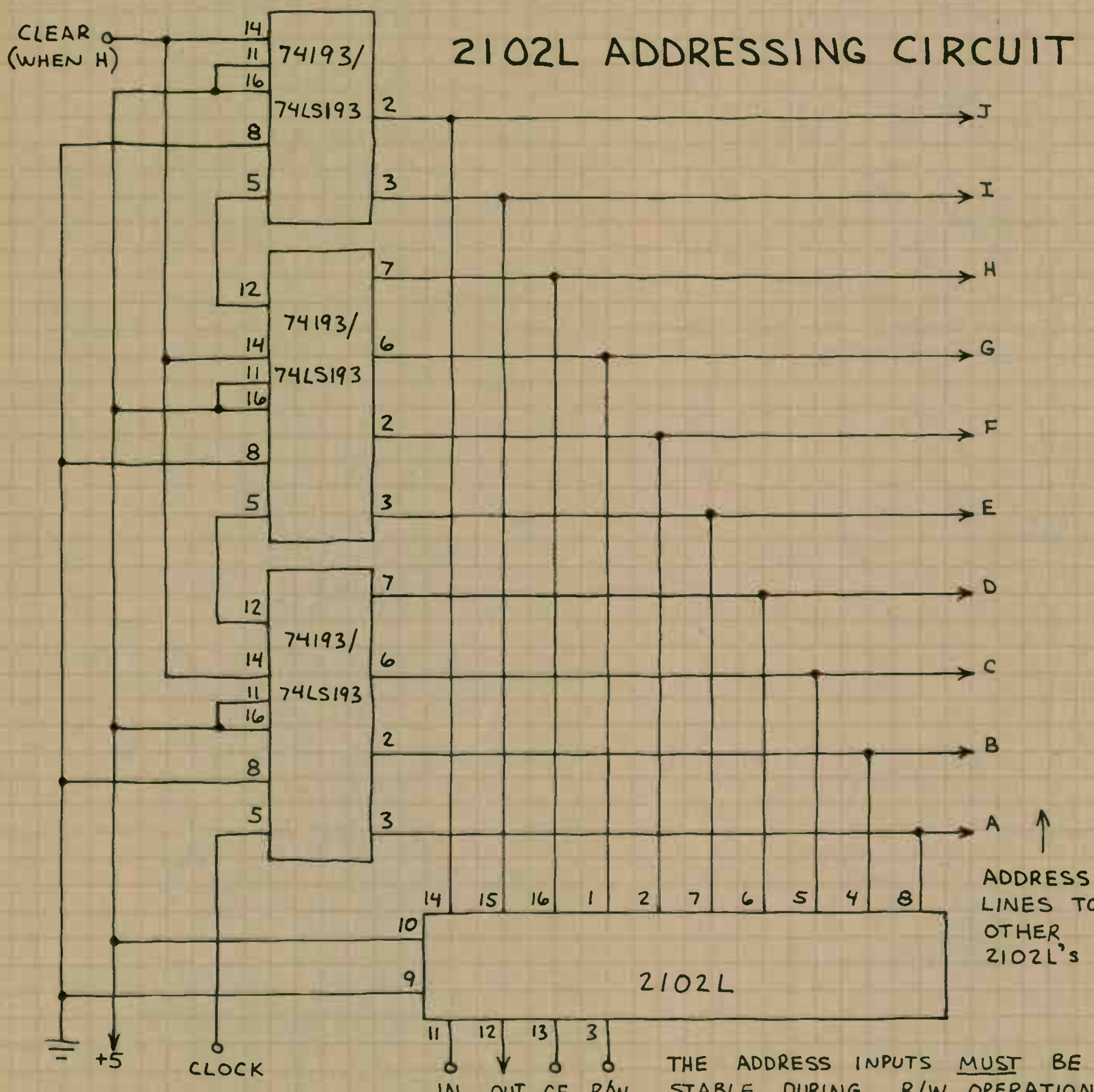
1024-BIT STATIC RAM
2102L



1024 1-BIT STORAGE LOCATIONS ADDRESSED BY PINS A0-A9. TTL/LS COMPATIBLE. CE (CHIP ENABLE) INPUT CONTROLS R/W (READ/WRITE) OPERATIONS). 3-STATE OUTPUTS.

CE	R/W	OPERATION
L	L	WRITE (LOADS BIT AT PIN 11)
L	H	READ (OUTPUTS BIT AT PIN 12)
H	X	HI Z (OUTPUT ENTERS THIRD STATE)

2102L ADDRESSING CIRCUIT



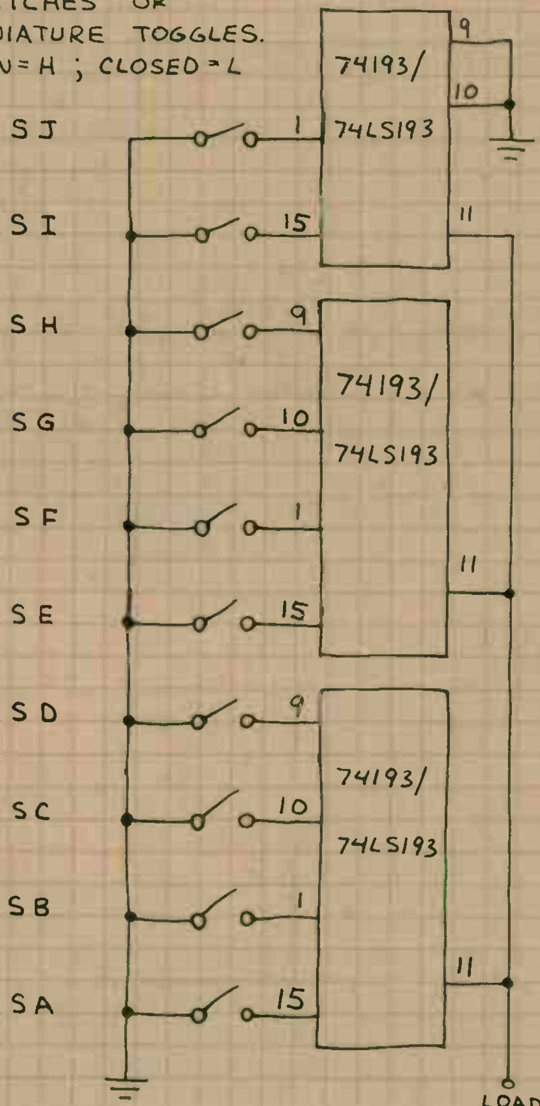
THE ADDRESS INPUTS MUST BE STABLE DURING R/W OPERATIONS.

1024-BIT STATIC RAM (CONTINUED)
2102L

ADDING PROGRAMMED OR MANUAL JUMP

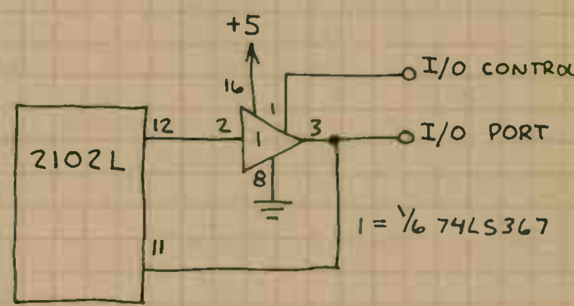
ADD THESE CONNECTIONS TO THE ADDRESSING CIRCUIT ON FACING PAGE.

SA–SJ: USE 8-POSITION DIP SWITCHES OR MINIATURE TOGGLES. OPEN = H ; CLOSED = L



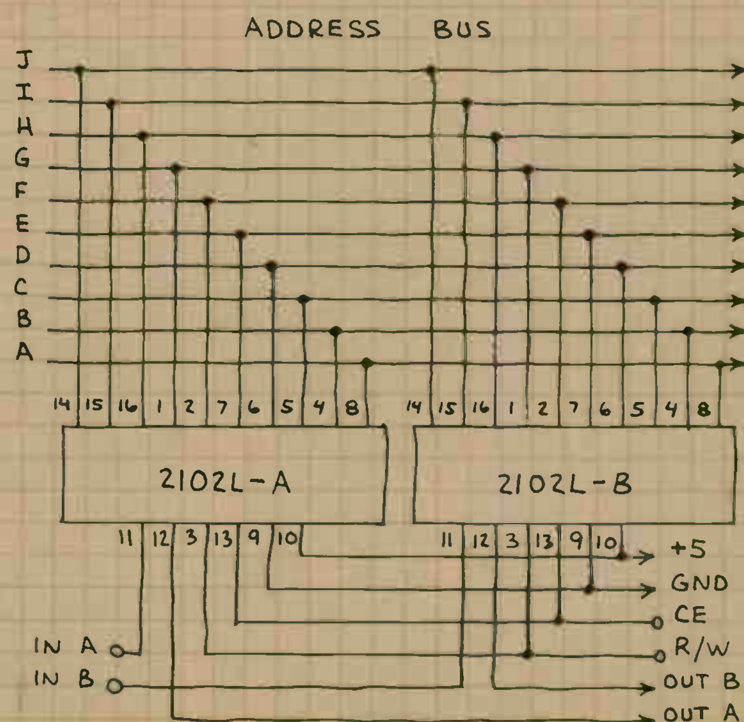
NORMALLY THE LOAD INPUT IS HIGH. MAKING LOAD LOW LOADS THE ADDRESS PROGRAMMED IN SWITCHES SA-SJ INTO THE 74193'S. THIS PERMITS A PROGRAMMED JUMP OR A MANUAL JUMP TO ANY ADDRESS.

SINGLE I/O PORT

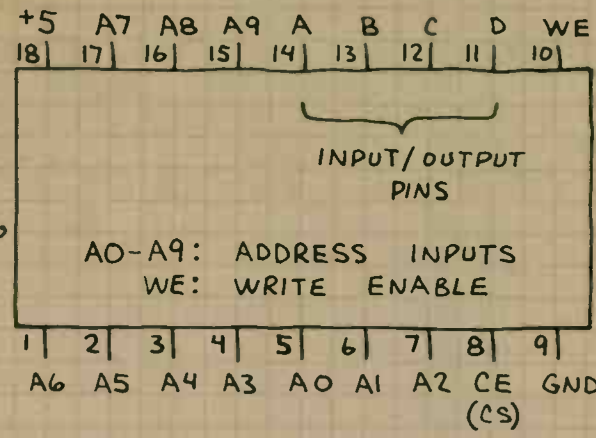


ADD THIS CIRCUIT TO THE ADDRESSING CIRCUIT ON FACING PAGE. WHEN I/O (INPUT/OUTPUT) CONTROL IS H, PIN 3 OF THE 74LS367 ENTERS THIRD STATE (HI-Z) AND I/O PORT ACCEPTS INPUT DATA. WHEN PIN 3 OF THE 74LS367 IS L, I/O PORT OUTPUTS DATA. BOTH THESE OPERATIONS ARE DEPENDENT UPON THE STATUS OF THE 2102L CONTROL INPUTS.

CASCADING 2102L'S

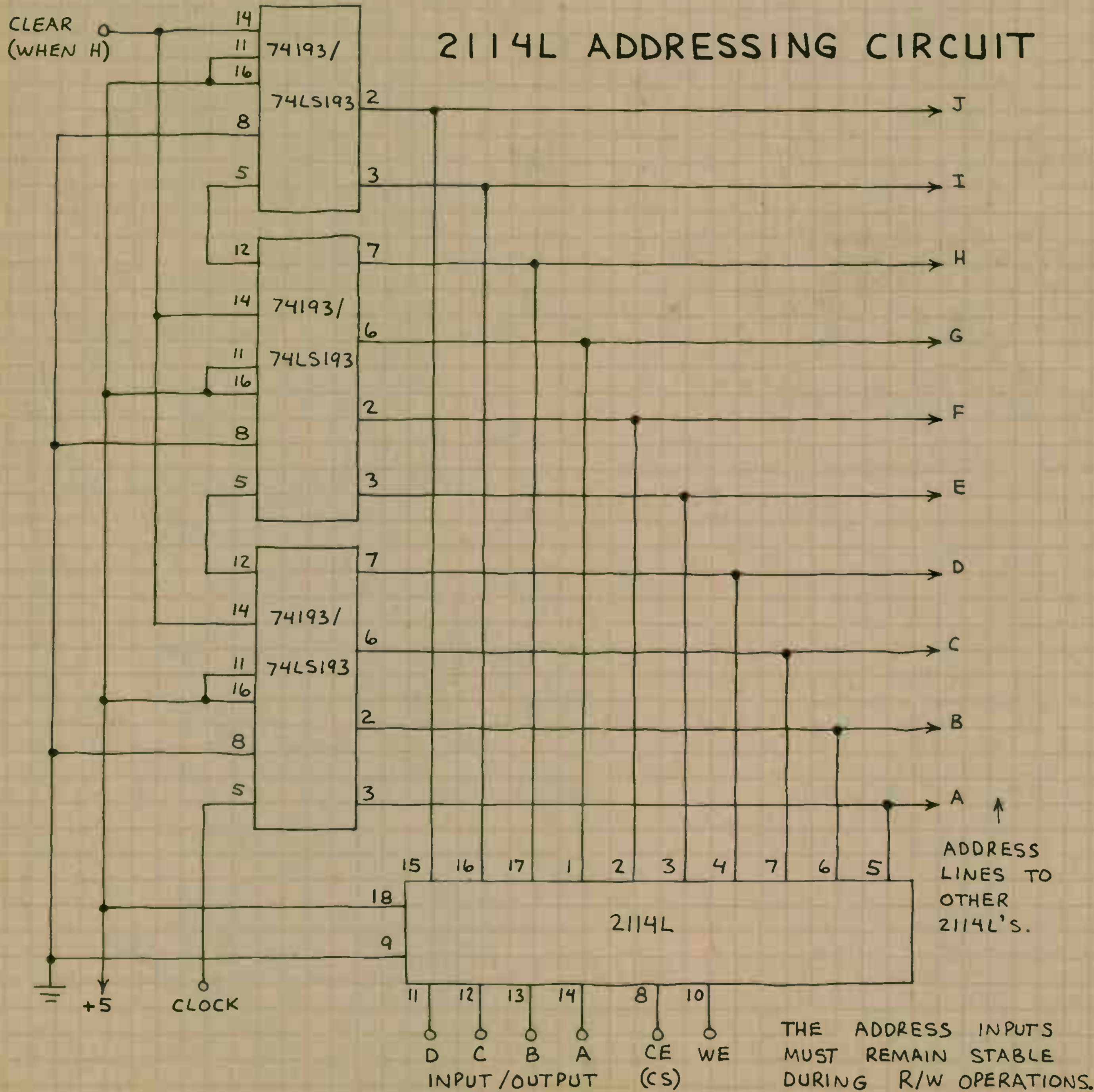


1024 × 4-BIT RAM
2114L/4045



1024-4-BIT STORAGE LOCATIONS ADDRESSED BY PINS A0-A9. TTL/LS COMPATIBLE. FOR READ/WRITE OPERATIONS, CE (CHIP ENABLE, ALSO CALLED CHIP SELECT) MUST BE LOW. WE INPUT MUST BE LOW TO WRITE (LOAD) DATA INTO CHIP. WHEN WE IS HIGH, DATA IN ADDRESSED LOCATION APPEARS AT INPUT/OUTPUT PINS. IDEAL CHIP FOR DO-IT-YOURSELF MICROCOMPUTERS AND CONTROLLERS.

2114L ADDRESSING CIRCUIT

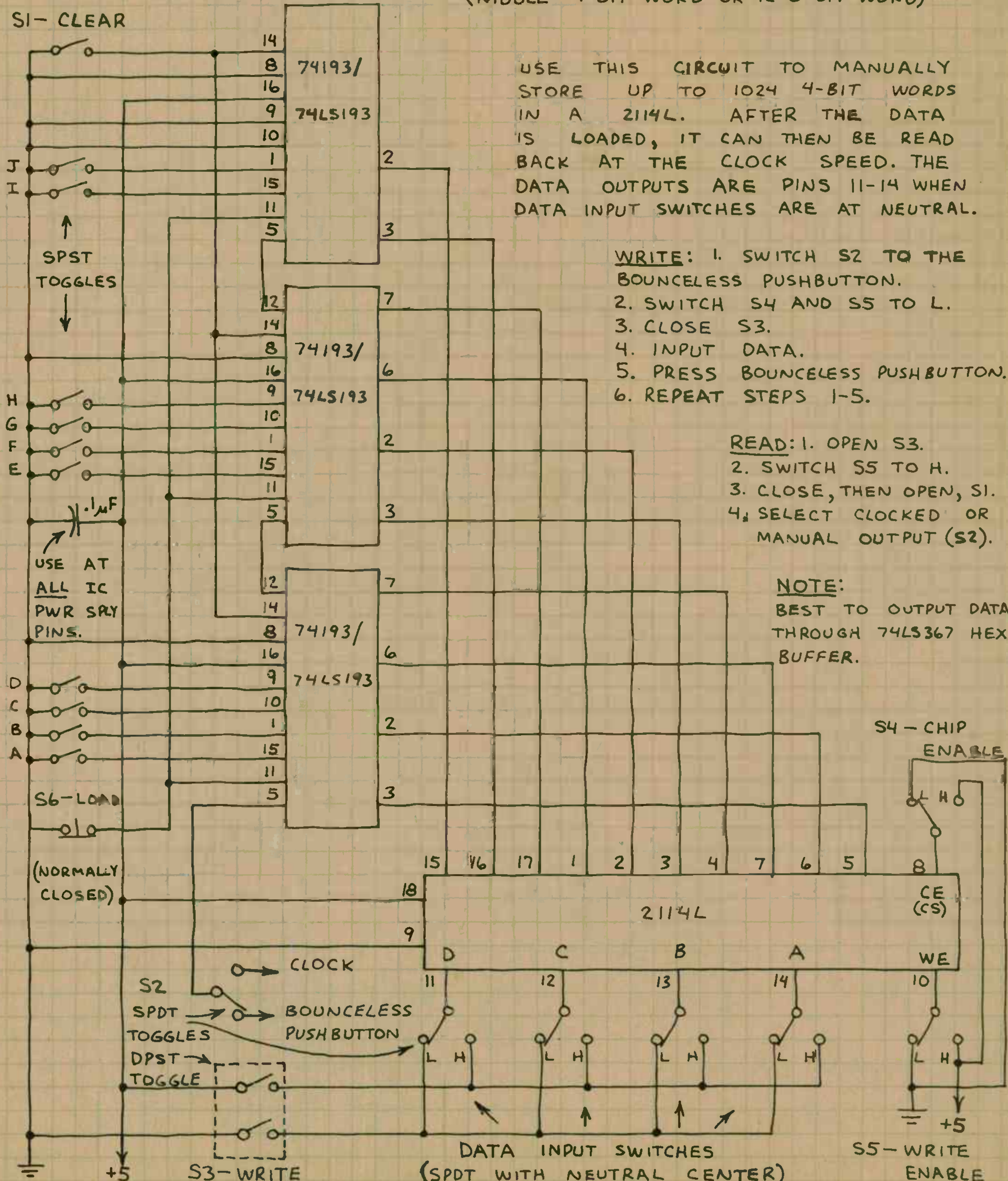


1024 × 4-BIT RAM (CONTINUED)
2114L/4045

1024-NIBBLE DATA LOADING CIRCUIT

(NIBBLE = 4-BIT WORD OR ½ 8-BIT WORD)

MANUAL JUMP: 1. SET SWITCHES A-J TO DESIRED ADDRESS; 2. PRESS S6.



USE THIS CIRCUIT TO MANUALLY STORE UP TO 1024 4-BIT WORDS IN A 2114L. AFTER THE DATA IS LOADED, IT CAN THEN BE READ BACK AT THE CLOCK SPEED. THE DATA OUTPUTS ARE PINS 11-14 WHEN DATA INPUT SWITCHES ARE AT NEUTRAL.

<u>WRITE</u>:
1. SWITCH S2 TO THE BOUNCELESS PUSHBUTTON.
2. SWITCH S4 AND S5 TO L.
3. CLOSE S3.
4. INPUT DATA.
5. PRESS BOUNCELESS PUSHBUTTON.
6. REPEAT STEPS 1-5.

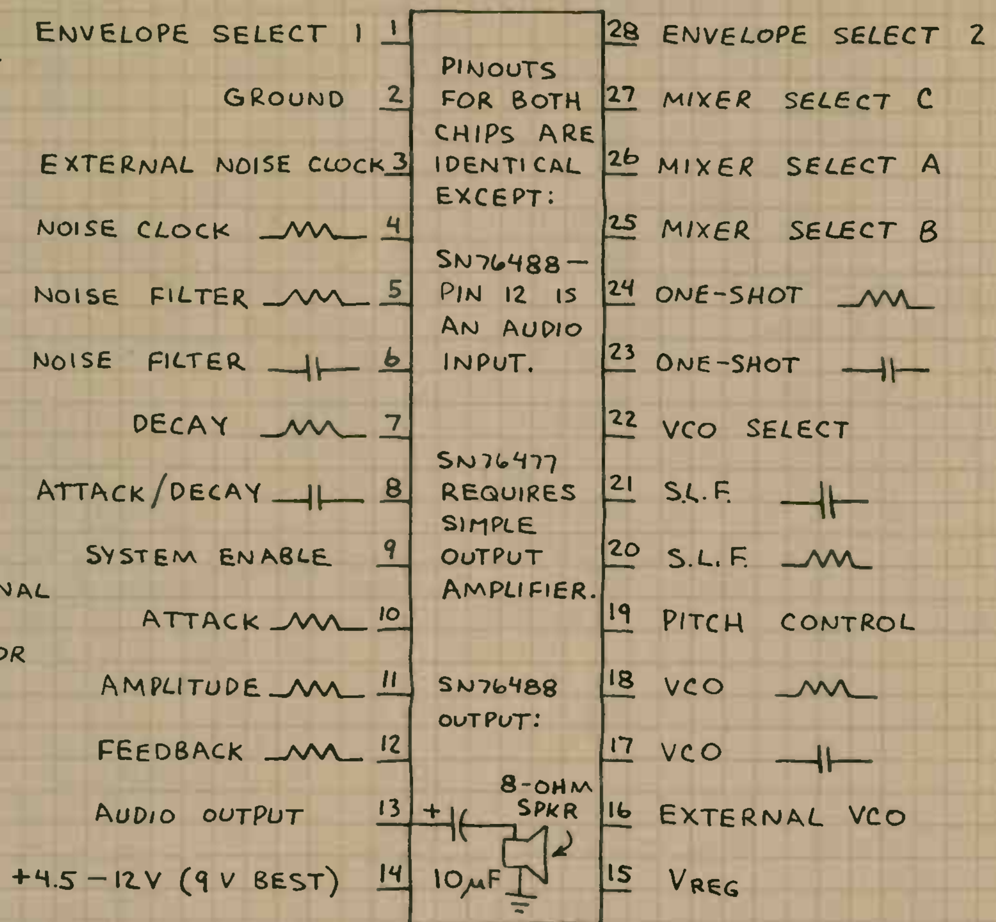
<u>READ</u>:
1. OPEN S3.
2. SWITCH S5 TO H.
3. CLOSE, THEN OPEN, S1.
4. SELECT CLOCKED OR MANUAL OUTPUT (S2).

<u>NOTE</u>: BEST TO OUTPUT DATA THROUGH 74LS367 HEX BUFFER.

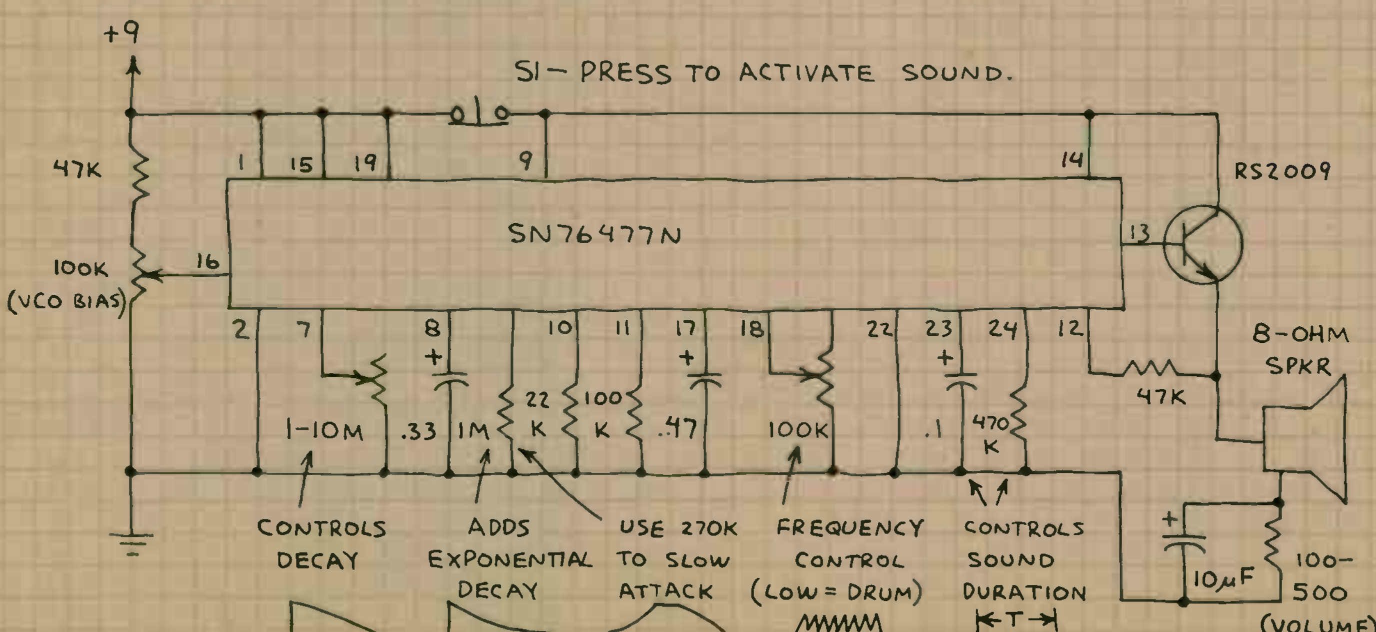
COMPLEX SOUND GENERATOR
SN76477N / SN76488N

NOTE: THE SN76488 INCLUDES BUILT-IN SPEAKER AMPLIFIER. THE SN76477 DOES NOT.

INCORPORATES S.L.F. (SUPER LOW FREQUENCY OSCILLATOR), VCO (VOLTAGE CONTROLLED OSCILLATOR), NOISE GENERATOR AND A MIXER THAT ALLOWS THE OUTPUTS FROM ONE OR MORE OF THE ABOVE TO BE COMBINED. CAN BE OPERATED TOGETHER WITH APPROPRIATE RESISTORS AND CAPACITORS TO PRODUCE MANY KINDS OF SOUNDS. CAN BE CONTROLLED BY EXTERNAL LOGIC. SEE DATA SUPPLIED WITH CHIP FOR MORE INFO. SN76477 AND SN76488 ARE INTERCHANGEABLE... BUT SN76488 DOES NOT NEED OUTPUT AMPLIFIER. NOTE: THIS CHIP IS EASY TO USE IF YOU FOLLOW DATA SHEET INSTRUCTIONS.

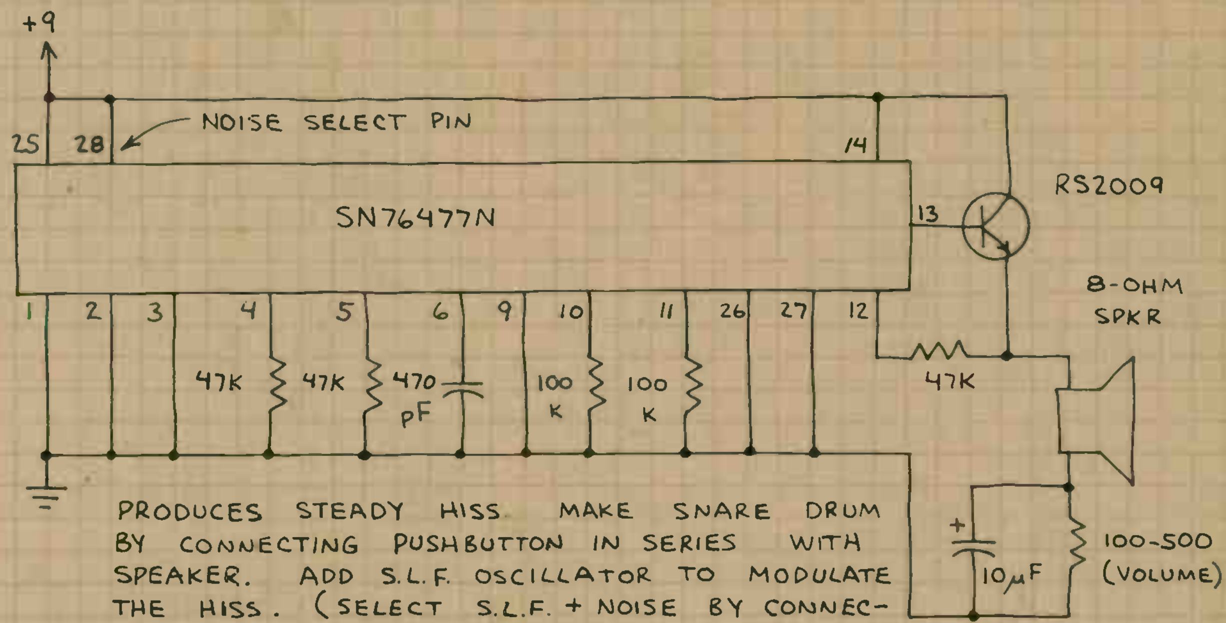


PERCUSSION SYNTHESIZER



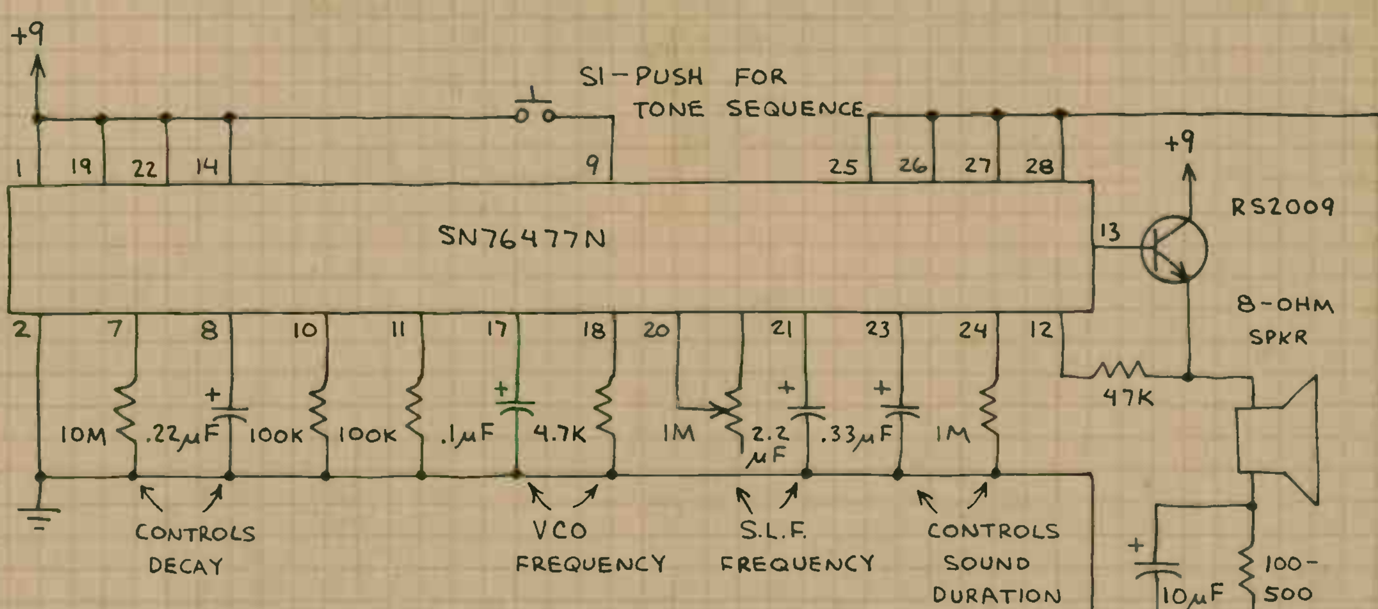
COMPLEX SOUND GENERATOR (CONTINUED)
SN76477N / SN76488N

NOISE GENERATOR



PRODUCES STEADY HISS. MAKE SNARE DRUM BY CONNECTING PUSHBUTTON IN SERIES WITH SPEAKER. ADD S.L.F. OSCILLATOR TO MODULATE THE HISS. (SELECT S.L.F. + NOISE BY CONNECTING PINS 25 AND 26 TO GND AND PIN 27 TO +9V. ADD 1M POT FROM PIN 20 TO GND AND 1μF CAPACITOR FROM PIN 21 TO GND.) SOUNDS LIKE STEAM TRAIN OR PROPELLER AIRCRAFT DEPENDING ON ADJUSTMENT OF 1M POT.

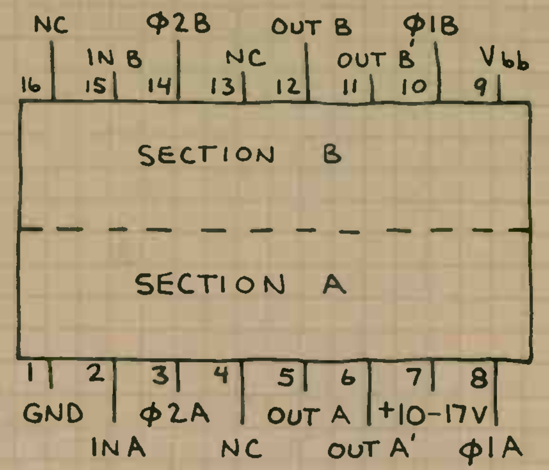
UNIVERSAL UP-DOWN TONE GENERATOR



PRESS S1 AND RELEASE TO HEAR UNDULATING TONE THAT GRADUALLY DECAYS AND STOPS. CHANGE VCO AND S.L.F. COMPONENTS FOR MANY DIFFERENT SOUND EFFECTS RANGING FROM SIREN TO SCIENCE FICTION MOVIE SOUNDS. FOR CONTINUOUS SOUND, OMIT COMPONENTS AT PINS 7, 8, 23, 24 AND GROUND PIN 9.

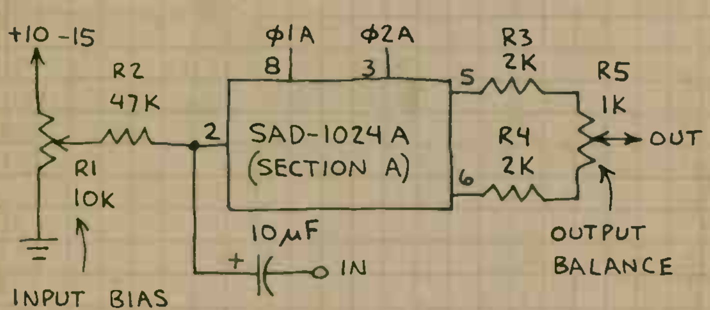
DUAL ANALOG DELAY LINE SAD-1024A

CONTAINS TWO INDEPENDENT 512 STAGE SERIAL ANALOG DELAY (SAD) LINES (ALSO CALLED ANALOG SHIFT REGISTERS). OK TO USE EACH 512 STAGE SAD SEPARATELY OR IN SERIES. ANALOG DELAYS OF UP TO 1/2 SECOND CAN BE ACHIEVED. A 2-PHASE CLOCK IS REQUIRED TO DRIVE INPUTS $\phi 1$ AND $\phi 2$. INPUT DATA RIDES THROUGH THE SAD ON ALTERNATING CLOCK PULSES AND APPEAR AT THE TWO OUTPUTS AFTER PASSING THROUGH ALL 512 STAGES. CONNECT V_{bb} TO V_{DD} (PIN 7) OR, FOR OPTIMUM RESULTS, TO 1 VOLT BELOW V_{DD}. THIS CHIP CAN BE TRICKY TO USE SINCE SEVERAL EXTERNAL ADJUSTMENTS ARE REQUIRED. CIRCUITS ON THIS PAGE EXPLAIN OPERATING REQUIREMENTS WHILE A COMPLETE CIRCUIT IS SHOWN ON FACING PAGE.



CAUTION: THIS NMOS CHIP IS VULNERABLE TO DAMAGE FROM STATIC DISCHARGE! FOLLOW CMOS HANDLING PROCEDURES.

SAD IN/OUT CONTROLS

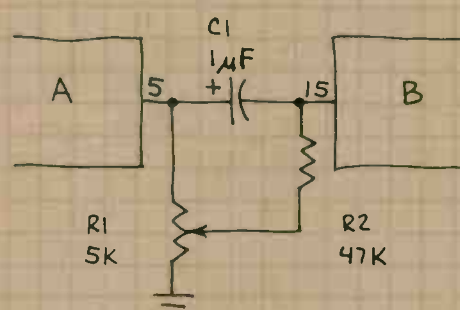


ADJUST R1 (INPUT BIAS) FOR OPTIMUM AUDIO OUTPUT. OUTPUTS APPEAR LIKE THIS ON A SCOPE:

SUMMED OUTPUTS (A+A'):

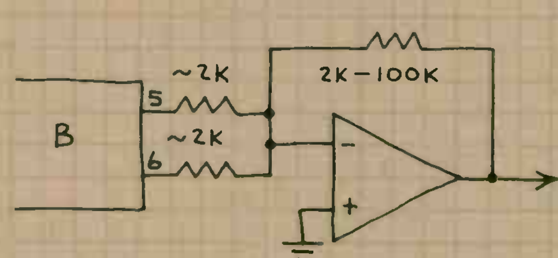
SET SCOPE TO VISUALIZE INPUT SIGNAL (COMPRESSING CLOCK RATE):

SERIAL OPERATION



R1 CONTROLS BIAS TO SECTION B. NOTE THAT ONLY ONE OUTPUT OF A IS CONNECTED TO INPUT OF B.

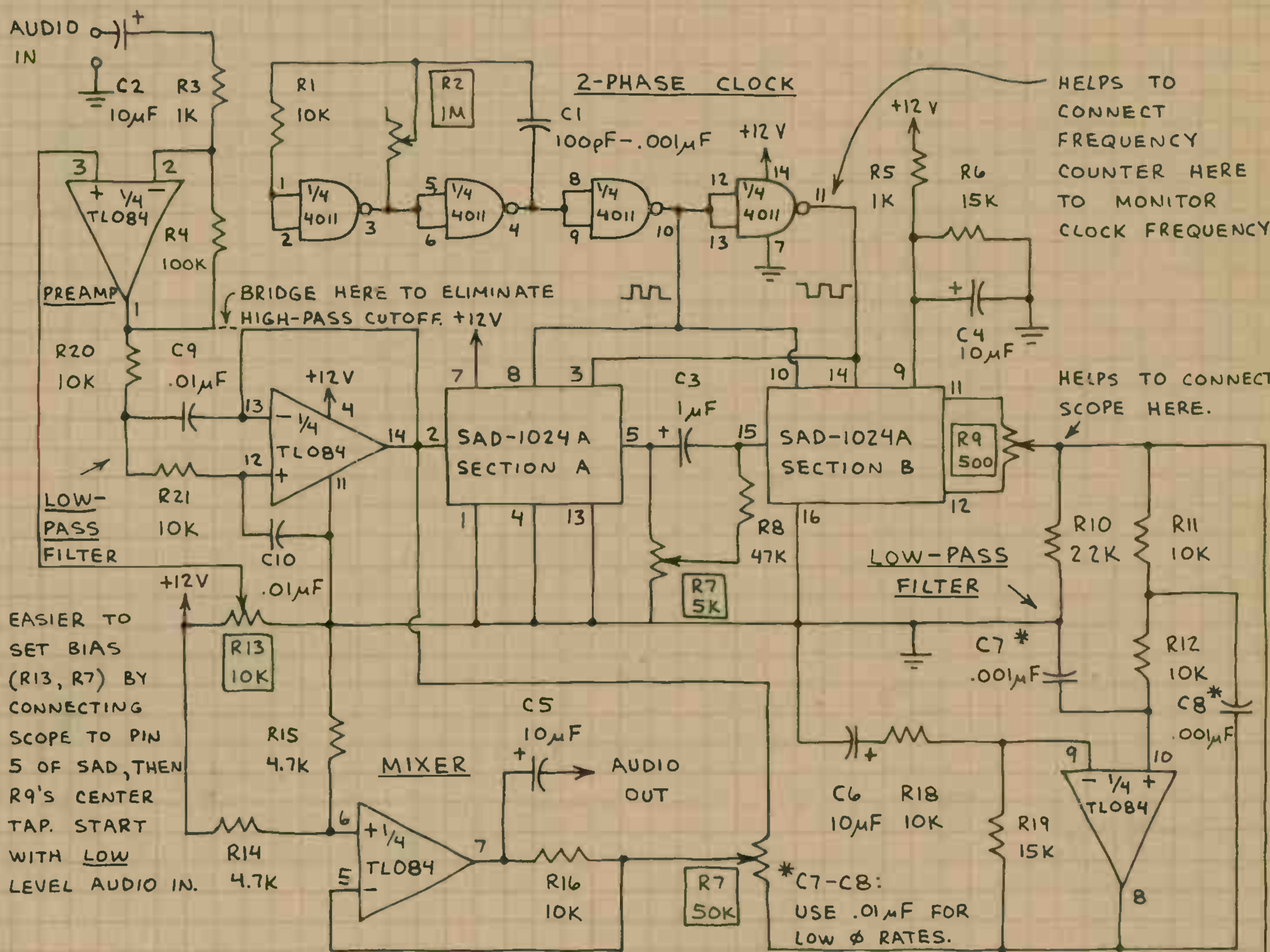
OUTPUT SUMMER



ANY OP-AMP CAN BE USED, BUT LOW NOISE FET INPUT TYPES ARE BEST.

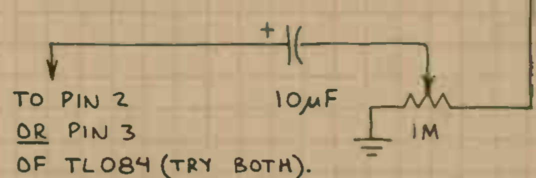
DUAL ANALOG DELAY LINE (CONTINUED)
SAD-1024A

ADJUSTABLE FLANGER OR PHASER



ADJUST CIRCUIT FOR DESIRED EFFECT BY CONNECTING TRANSISTOR RADIO TO AUDIO INPUT. TUNE RADIO TO A TALK SHOW FOR BEST RESULTS. R13 AND R7 CONTROL BIAS TO SECTIONS A AND B OF THE SAD. R9 BALANCES THE SAD OUTPUTS. R2 CONTROLS THE CLOCK RATE. R17 IS THE MAIN BALANCE CONTROL. IT CONTROLS THE RELATIVE AMPLITUDES OF THE ORIGINAL AND DELAYED SIGNAL APPLIED TO THE MIXER. CONNECT THE OUTPUT TO A POWER AMPLIFIER. YOU MUST ADJUST BIAS CONTROLS PROPERLY FOR BEST RESULTS. SET R2 FOR LOW FREQUENCIES (3-8KHz) FOR SINGLE ECHO. USE HIGHER CLOCK FREQUENCIES (20-100 KHz) FOR HOLLOW, SWISHY SOUNDS. NOTE: THIS CIRCUIT IS NOT FOR BEGINNERS.

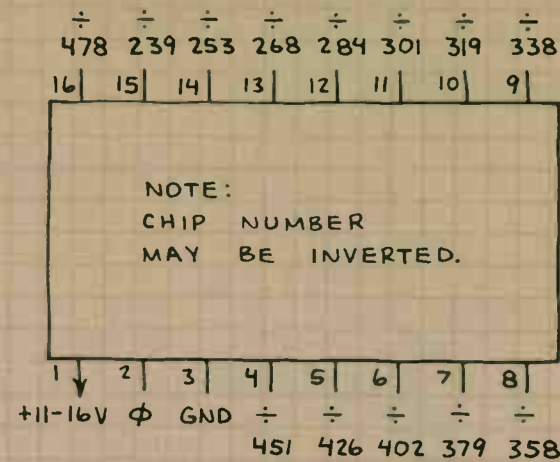
REVERBERATOR



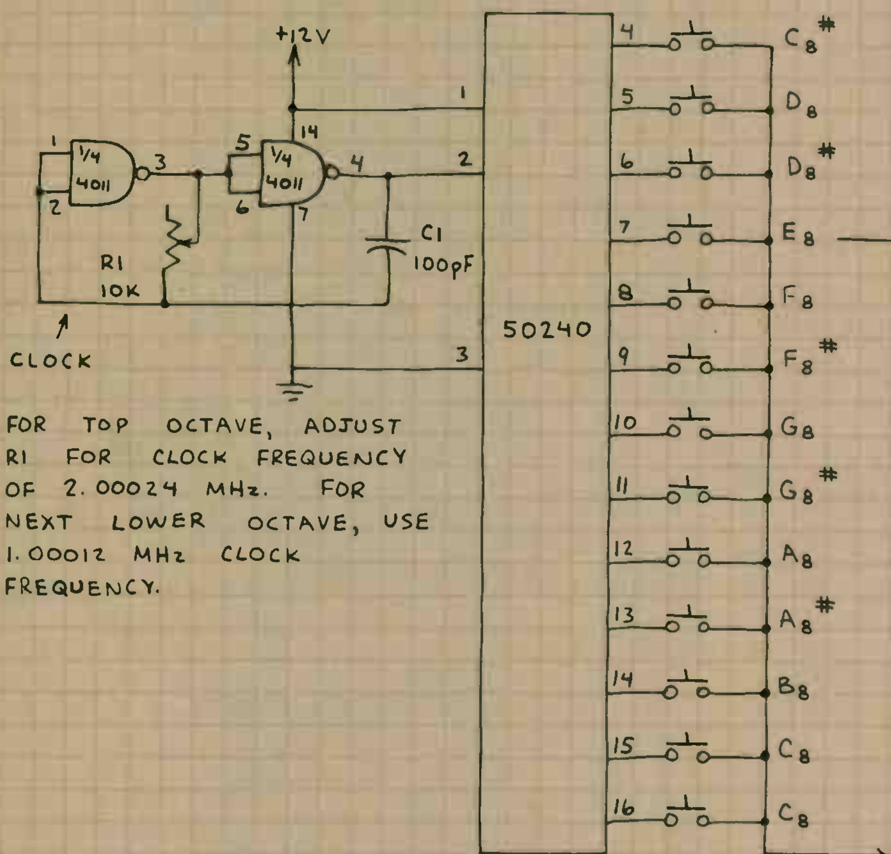
ADD THIS FEEDBACK CIRCUIT FOR UNUSUAL REVERBERATION EFFECTS. SLOW CLOCK FREQUENCIES GIVE MOST STRIKING REVERBERATIONS. TRY 5-20 KHz. FASTER CLOCK (20-100 KHz) AND CAREFUL ADJUSTMENT GIVES ROBOT-LIKE SOUND USED IN SOME SCIENCE FICTION MOVIES.

TOP OCTAVE SYNTHESIZER
S50240

THIS PMOS CHIP ACCEPTS AN INPUT FREQUENCY (Φ) AND THEN DIVIDES IT INTO A FULL OCTAVE PLUS ONE NOTE ON THE EQUALLY TEMPERED SCALE. THIS CHIP IS IDEAL FOR MUSIC SYNTHESIZERS, ORGANS, ETC. FOR TOP OCTAVE OPERATION, Φ SHOULD BE 2.00024 MHz; LOWER FREQUENCIES GIVE LOWER OCTAVES.

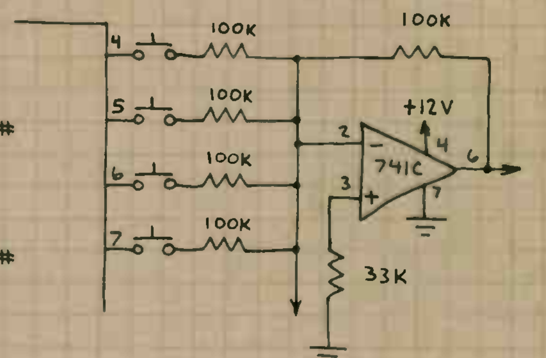


ADJUSTABLE OCTAVE SYNTHESIZER

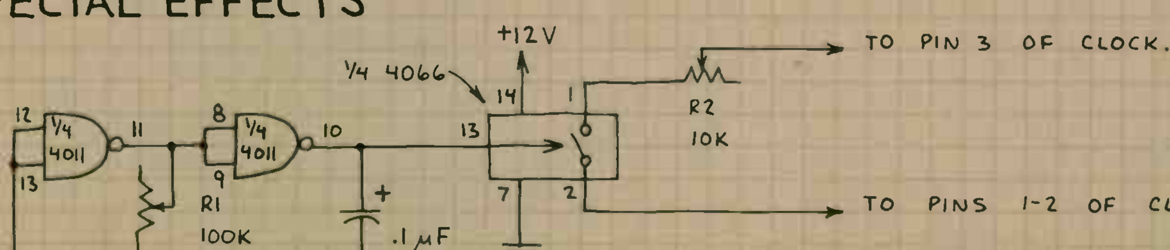


FOR TOP OCTAVE, ADJUST R1 FOR CLOCK FREQUENCY OF 2.00024 MHz. FOR NEXT LOWER OCTAVE, USE 1.00012 MHz CLOCK FREQUENCY.

IMPORTANT: PRESS ONLY ONE SWITCH AT ANY TIME. TO OBTAIN SIMULTANEOUS TONES (CHORDS), USE AN OP-AMP MIXER OR SUMMING AMPLIFIER LIKE THIS:



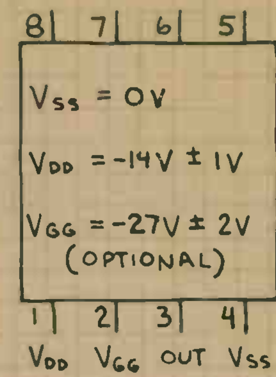
SPECIAL EFFECTS



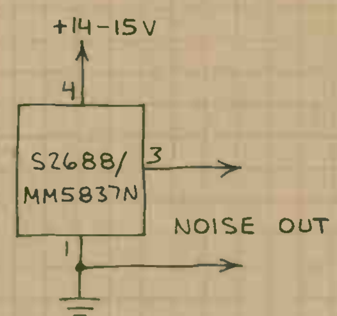
THIS PRODUCES BAGPIPE AND OTHER UNUSUAL SOUNDS. ADJUST R1 TO VARY INTERRUPTION RATE.

NOISE GENERATOR
S2688 / MM5837N

PRODUCES BROADBAND WHITE NOISE FOR AUDIO AND OTHER APPLICATIONS. THE NOISE QUALITY IS VERY UNIFORM. IT IS PRODUCED BY A 17-BIT SHIFT REGISTER WHICH IS CLOCKED BY AN INTERNAL OSCILLATOR.

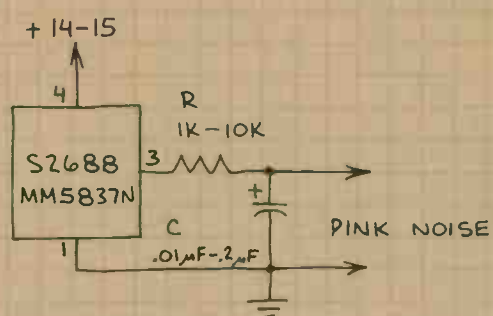


WHITE NOISE SOURCE



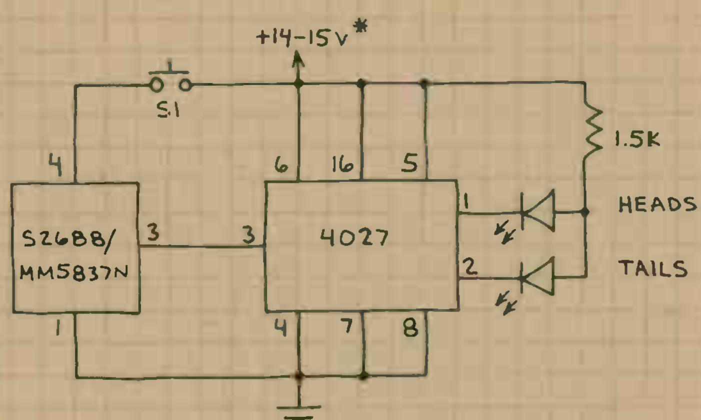
CONNECT OUTPUT TO AUDIO AMPLIFIER TO HEAR NOISE. USE 7815 VOLTAGE REGULATOR TO OBTAIN +15 VOLTS.

PINK NOISE SOURCE



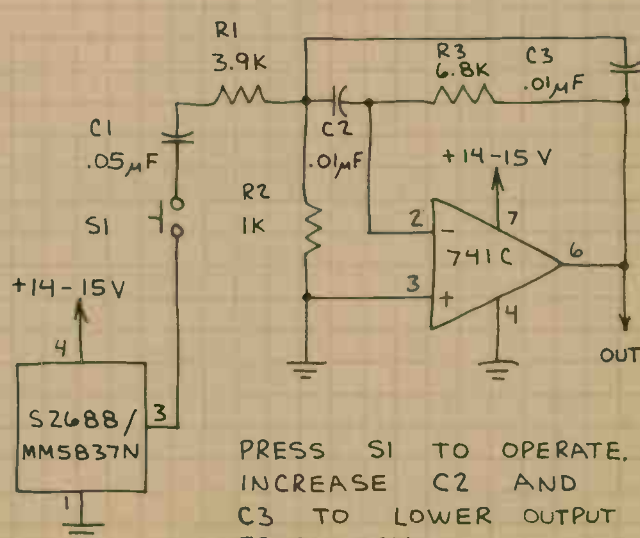
CHANGE R AND C TO ALTER NOISE SPECTRUM. ALSO, TRY LOWER SUPPLY VOLTAGES TO CHANGE SPECTRUM.

COIN TOSSER



PRESS S1; BOTH LEDS GLOW. RELEASE S1 AND ONLY ONE GLOWS. GROUND INPUTS OF UNUSED HALF OF 4027 (PINS 9, 10, 11, 12 AND 13). *(OK TO USE 9-VOLT BATTERY AS POWER SUPPLY.)

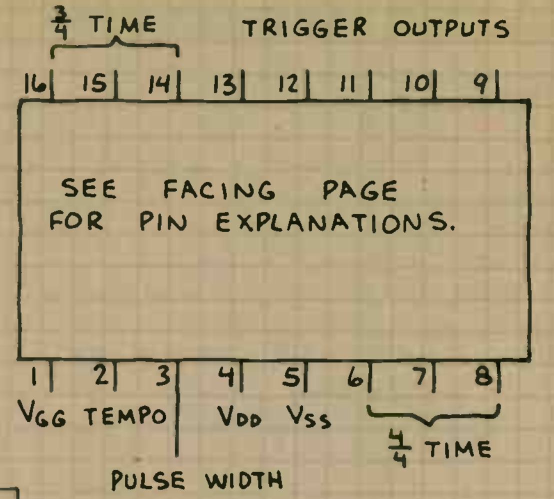
SNARE / BRUSH NOISE



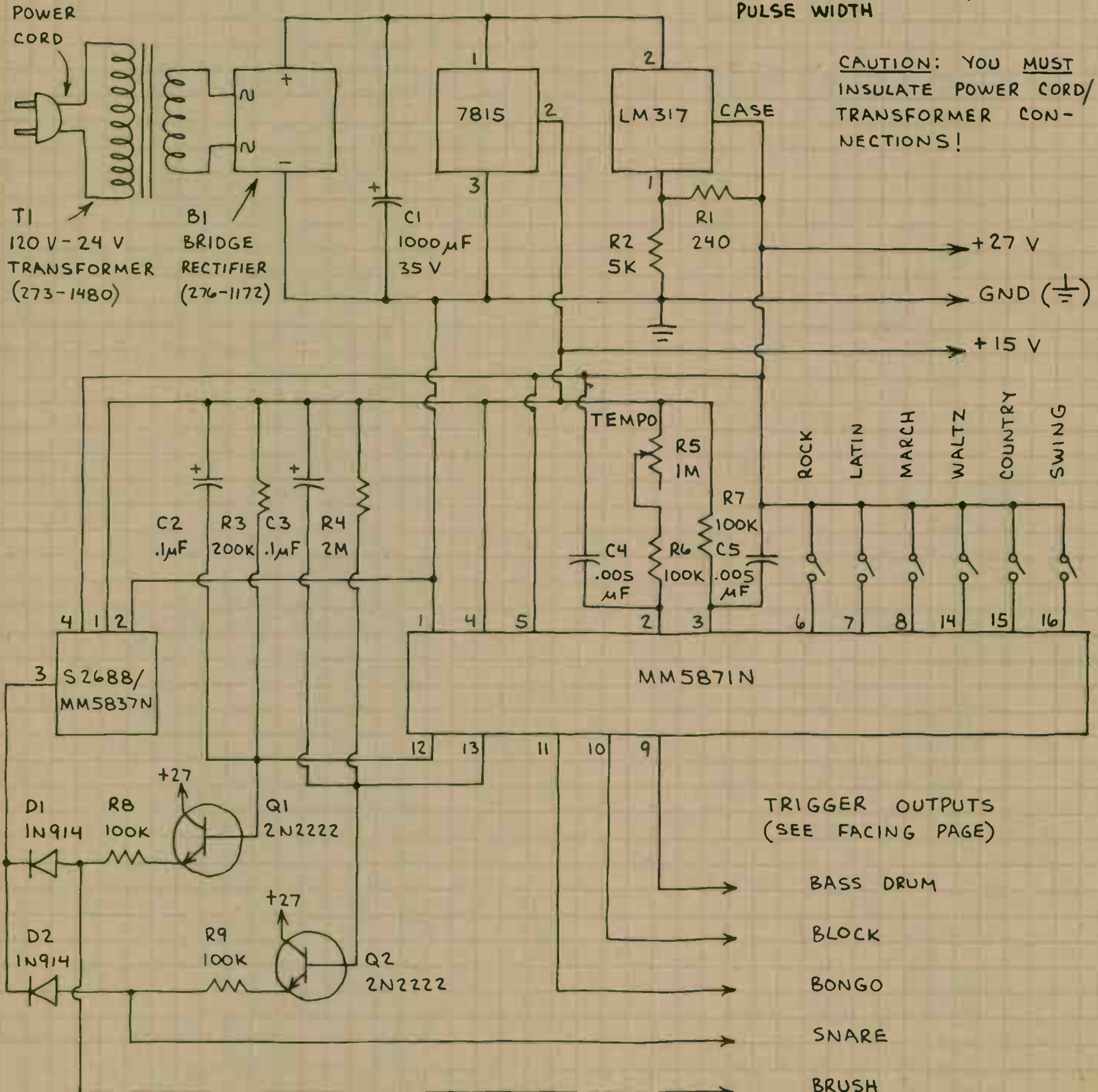
PRESS S1 TO OPERATE. INCREASE C2 AND C3 TO LOWER OUTPUT FREQUENCY.

RHYTHM PATTERN GENERATOR
MM5871

PRODUCES SIX DIFFERENT RHYTHM PATTERNS AND TRIGGERS FIVE DIFFERENT INSTRUMENTS. ADJUSTABLE TEMPO. COMPLICATED TO USE, BUT WELL WORTH THE EFFORT.



RHYTHM BOX



CAUTION: YOU MUST INSULATE POWER CORD/ TRANSFORMER CONNECTIONS!

RHYTHM PATTERN GENERATOR (CONTINUED)
MM5871

PERCUSSION SYNTHESIZERS:

OK TO TUNE BY MAKING SLIGHT CHANGES TO RC COMPONENTS.

MM5871 PIN EXPLANATIONS:

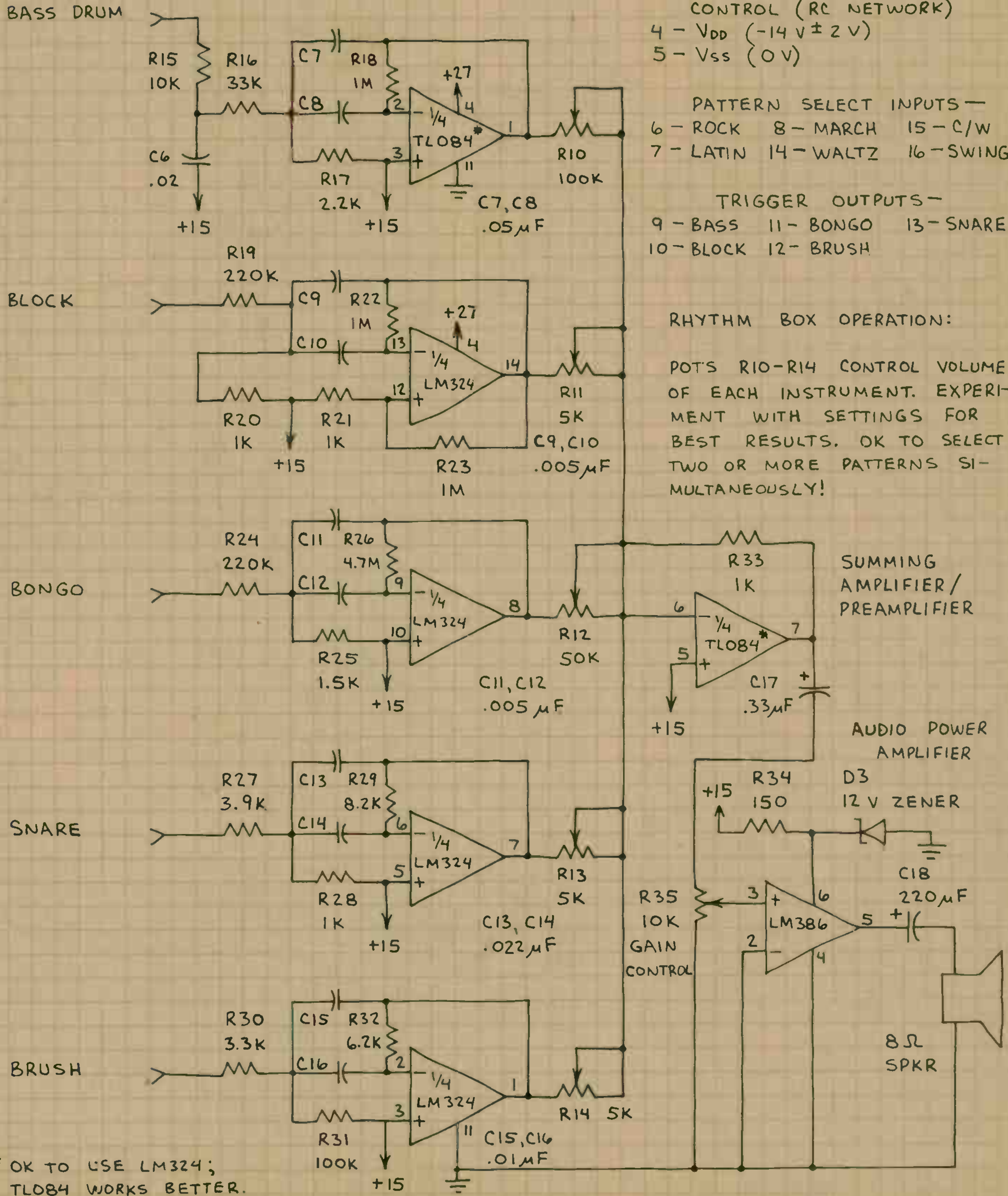
1 – V_{GG} (–27 V ± 2 V)
2 – TEMPO CONTROL (RC NETWORK)
3 – TRIGGER OUTPUT PULSE WIDTH CONTROL (RC NETWORK)
4 – V_{DD} (–14 V ± 2 V)
5 – V_{SS} (0 V)

PATTERN SELECT INPUTS—
6 – ROCK   8 – MARCH   15 – C/W
7 – LATIN   14 – WALTZ   16 – SWING

TRIGGER OUTPUTS—
9 – BASS   11 – BONGO   13 – SNARE
10 – BLOCK   12 – BRUSH

RHYTHM BOX OPERATION:

POTS R10–R14 CONTROL VOLUME OF EACH INSTRUMENT. EXPERIMENT WITH SETTINGS FOR BEST RESULTS. OK TO SELECT TWO OR MORE PATTERNS SIMULTANEOUSLY!



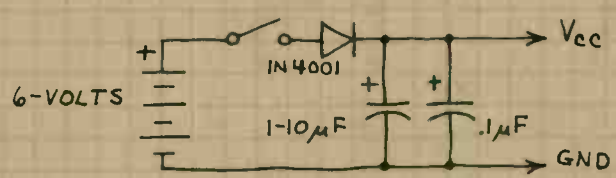
* OK TO USE LM324; TL084 WORKS BETTER.

NOTES

TTL/LS INTEGRATED CIRCUITS

INTRODUCTION

TTL IS THE BEST ESTABLISHED AND MOST DIVERSIFIED IC FAMILY. LS IS FUNCTIONALLY IDENTICAL TO TTL BUT IS SLIGHTLY FASTER AND USES 80% LESS POWER. TTL/LS CHIPS REQUIRE A REGULATED 4.75–5.25 VOLT POWER SUPPLY. HERE'S A SIMPLE BATTERY SUPPLY:



THE DIODE DROPS THE BATTERY VOLTAGE TO A SAFE LEVEL. BOTH CAPACITORS SHOULD BE INSTALLED ON THE TTL/LS CIRCUIT BOARD. CIRCUITS WITH LOTS OF TTL/LS CHIPS CAN USE LOTS OF CURRENT. USE A COMMERCIAL 5 VOLT LINE POWERED SUPPLY TO SAVE BATTERIES. OR MAKE YOUR OWN. (SEE THE 7805 ON PAGE 94.)

OPERATING REQUIREMENTS

1. V_{cc} MUST <u>NOT</u> EXCEED 5.25 VOLTS.

2. INPUT SIGNALS MUST NEVER EXCEED V_{cc} AND SHOULD NOT FALL BELOW GND.

3. UNCONNECTED TTL/LS INPUTS USUALLY ASSUME THE H STATE... BUT <u>DON'T</u> <u>COUNT</u> <u>ON</u> <u>IT</u>! IF AN INPUT IS SUPPOSED TO BE FIXED AT H, CONNECT IT TO V_{cc}.

4. IF AN INPUT IS SUPPOSED TO BE FIXED AT L, CONNECT IT TO GND.

5. CONNECT UNUSED AND/NAND/OR INPUTS TO A USED INPUT OF THE SAME CHIP.

6. FORCE OUTPUTS OF UNUSED GATES H TO SAVE CURRENT (NAND—ONE INPUT H; NOR—ALL INPUTS L).

7. USE AT LEAST ONE DECOUPLING CAPACITOR (0.01–0.1 µF) FOR EVERY 5-10 GATE PACKAGES, ONE FOR EVERY 2-5 COUNTERS AND REGISTERS AND ONE FOR EACH ONE-SHOT. DECOUPLING CAPACITORS NEUTRALIZE THE HEFTY POWER SUPPLY SPIKES THAT OCCUR WHEN A TTL/LS OUTPUT CHANGES STATES. THEY MUST HAVE SHORT LEADS AND BE CONNECTED FROM V_{cc} TO GND AS NEAR THE TTL/LS ICs AS POSSIBLE.

8. AVOID LONG WIRES WITHIN CIRCUITS

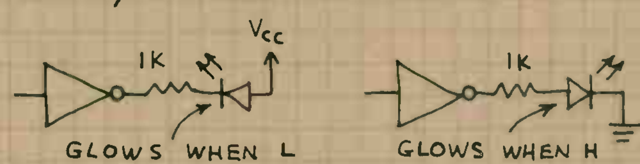
9. IF THE POWER SUPPLY IS NOT ON THE CIRCUIT BOARD, CONNECT A 1–10µF CAPACITOR ACROSS THE POWER LEADS WHERE THEY ARRIVE AT THE BOARD.

INTERFACING TTL/LS

1. 1 TTL OUTPUT WILL DRIVE UP TO 10 TTL OR 20 LS INPUTS.

2. 1 LS OUTPUT WILL DRIVE UP TO 5 TTL OR 10 LS INPUTS.

3. TTL/LS LED DRIVERS:



TTL/LS TROUBLESHOOTING

1. DO <u>ALL</u> INPUTS GO SOMEWHERE?

2. ARE <u>ALL</u> IC PINS INSERTED INTO THE BOARD OR SOCKET?

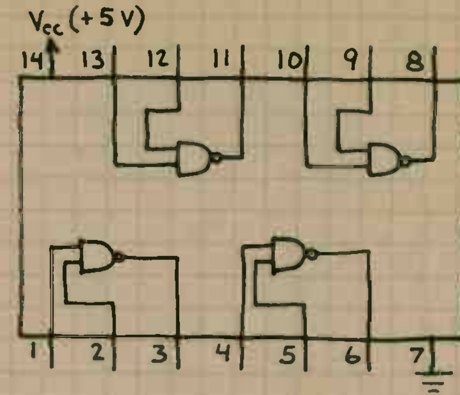
3. DOES THE CIRCUIT OBEY <u>ALL</u> TTL/LS OPERATING REQUIREMENTS?

4. HAVE YOU FORGOTTEN A CONNECTION?

5. HAVE YOU USED ENOUGH DECOUPLING CAPACITORS? ARE THEIR LEADS SHORT?

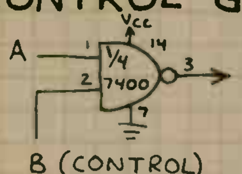
6. IS V_{cc} AT EACH CHIP WITHIN RANGE?

QUAD NAND GATE
7400/74LS00



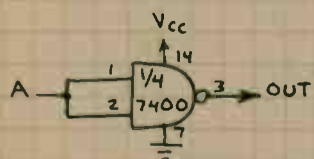
THE BASIC BUILDING BLOCK CHIP FOR THE ENTIRE TTL FAMILY. VERY EASY TO USE. HUNDREDS OF APPLICATIONS.

CONTROL GATE



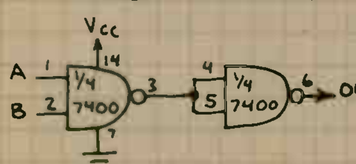
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

INVERTER



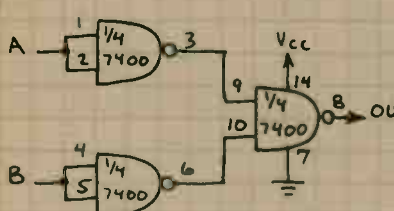
A	OUT
L	H
H	L

AND GATE



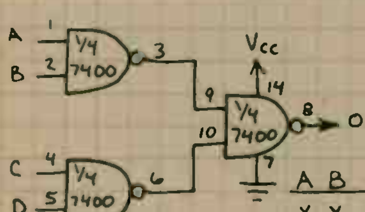
A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

OR GATE



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

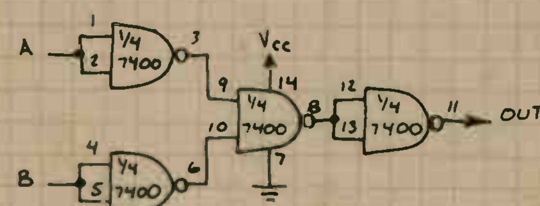
AND-OR GATE



A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

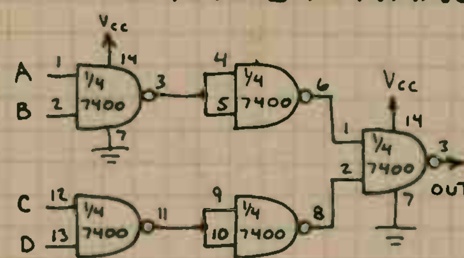
NOTE: PIN NUMBERS CAN BE REARRAGED IF DESIRED.

NOR GATE



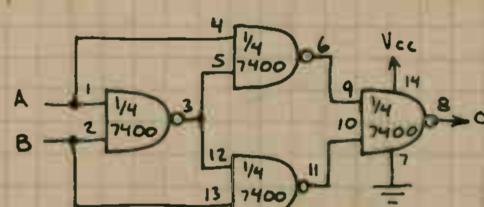
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

4-INPUT NAND GATE



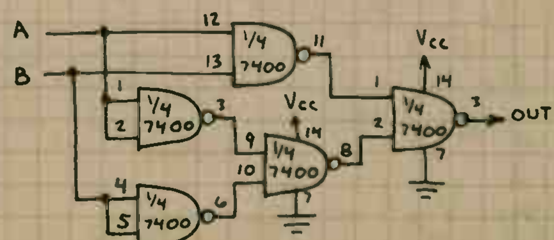
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

EXCLUSIVE-OR GATE



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

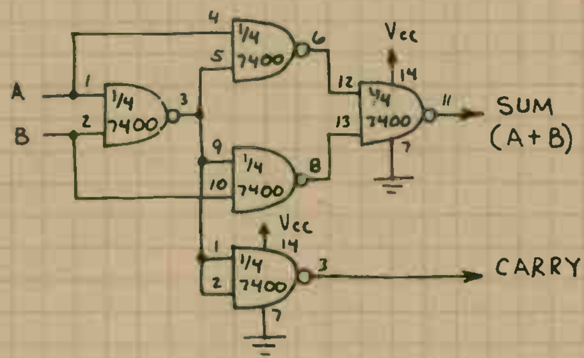
EXCLUSIVE-NOR GATE



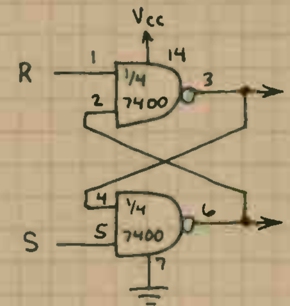
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

QUAD NAND GATE (CONTINUED)
7400/74LS00

HALF ADDER

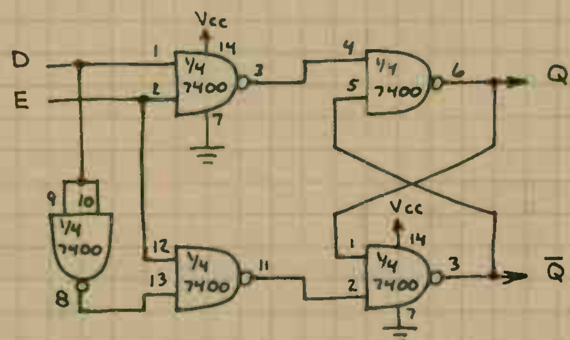


RS LATCH



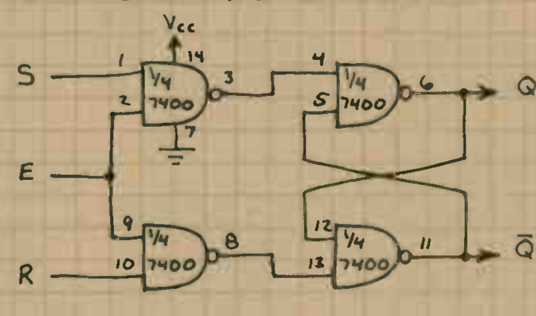
R	S	Q	$\bar{Q}$
L	L	NOT ALLOWED	
L	H	H	L
H	L	L	H
H	H	NO CHANGE	

D FLIP-FLOP



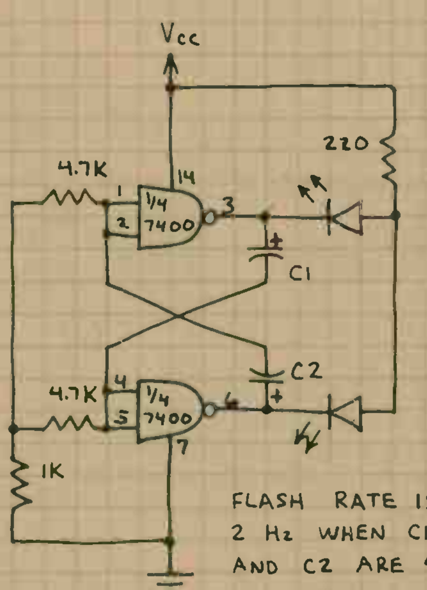
WHEN ENABLE (E) INPUT IS HIGH, Q OUTPUT FOLLOWS D INPUT. NO CHANGE WHEN E IS LOW.

GATED RS LATCH



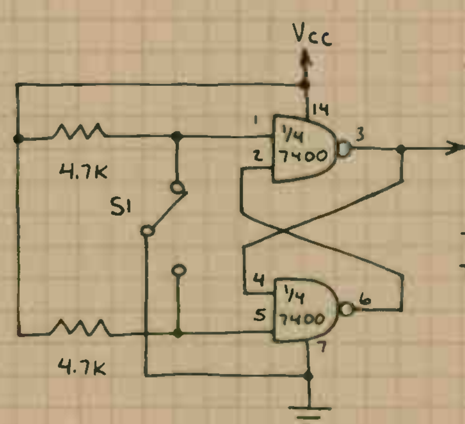
FUNCTIONS AS RS LATCH WHEN ENABLE (E) INPUT IS HIGH. IGNORES RS INPUTS WHEN E IS LOW.

LED DUAL FLASHER



FLASH RATE IS 2 Hz WHEN C1 AND C2 ARE 47μF.

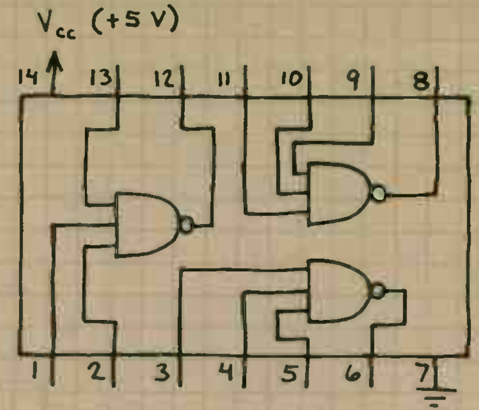
SWITCH DEBOUNCER



TOGGLE S1 TO OPERATE.

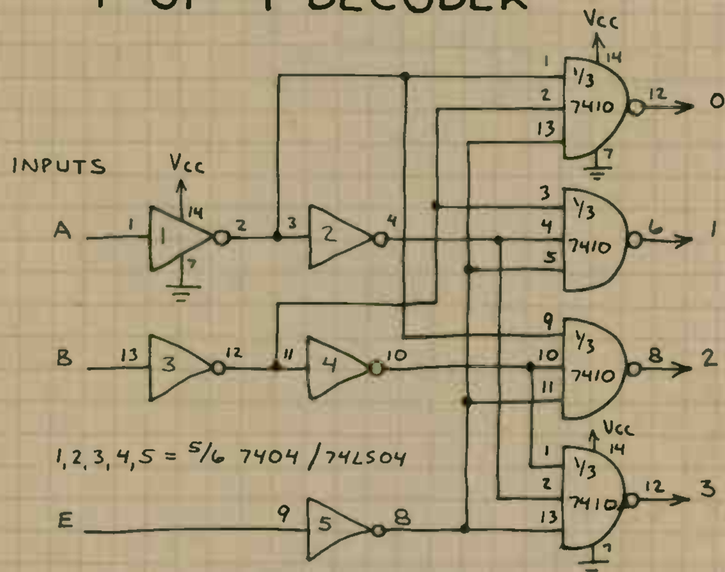
PROVIDES NOISE FREE OUTPUT FROM STANDARD SPDT TOGGLE SWITCH.

TRIPLE 3-INPUT NAND GATE
74LS10



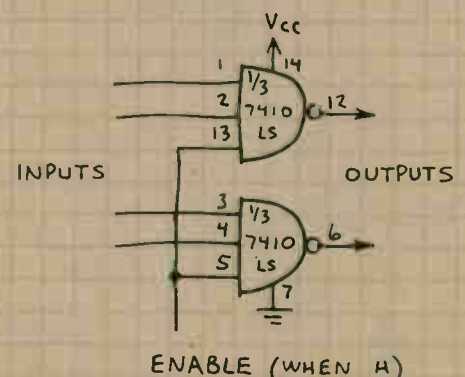
VERY USEFUL IN DO-IT-YOURSELF DECODERS. ALSO VERY HANDY FOR ADDING ENABLE CONTROL TO DIGITAL CIRCUITS.

1-OF-4 DECODER



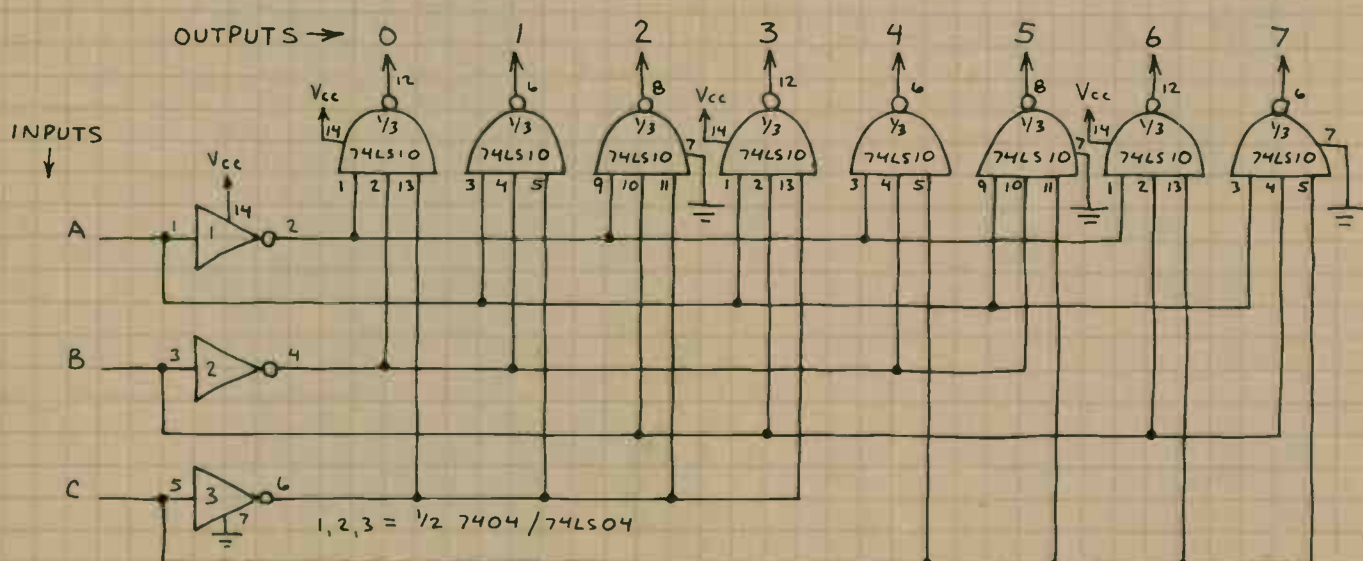
FOR EACH OF 4 POSSIBLE BINARY INPUTS (LL, LH, HL AND HH) ONE INPUT GOES LOW WHILE ALL OTHERS STAY HIGH. E SHOULD BE H.

ENABLE INPUT



TYPICAL ENABLE INPUT CIRCUIT. USE THIS METHOD TO CONTROL ONE OR MORE GATES.

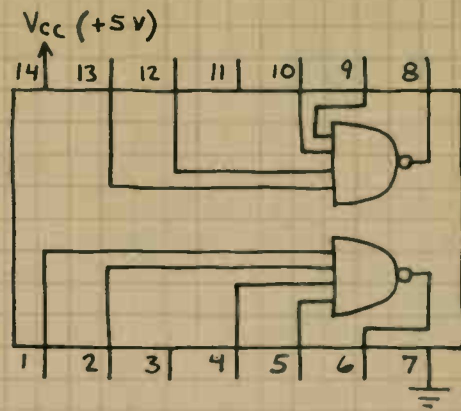
1-OF-8 DECODER



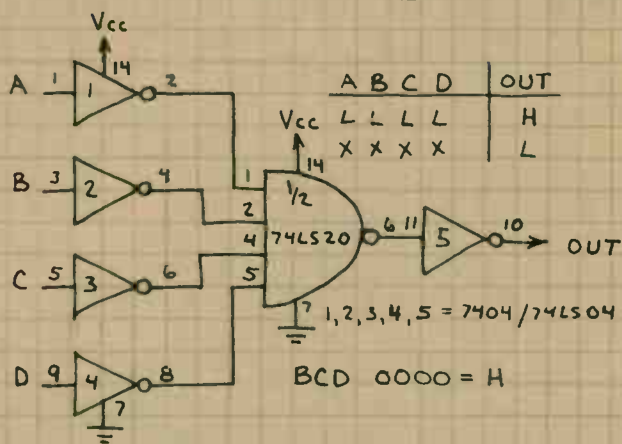
FOR EACH OF 8 POSSIBLE BINARY INPUTS (LLL, LLH, LHL ... HHH), ONE OUTPUT GOES LOW WHILE ALL OTHERS STAY HIGH.

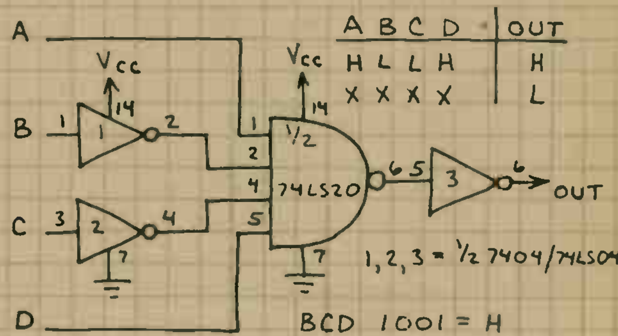
DUAL 4-INPUT NAND GATE 74LS20

MANY DECODER AND ENCODER APPLICATIONS. CAN BE USED AS DUAL 3-INPUT NAND GATE WITH ENABLE (CONTROL) INPUT FOR EACH GATE.



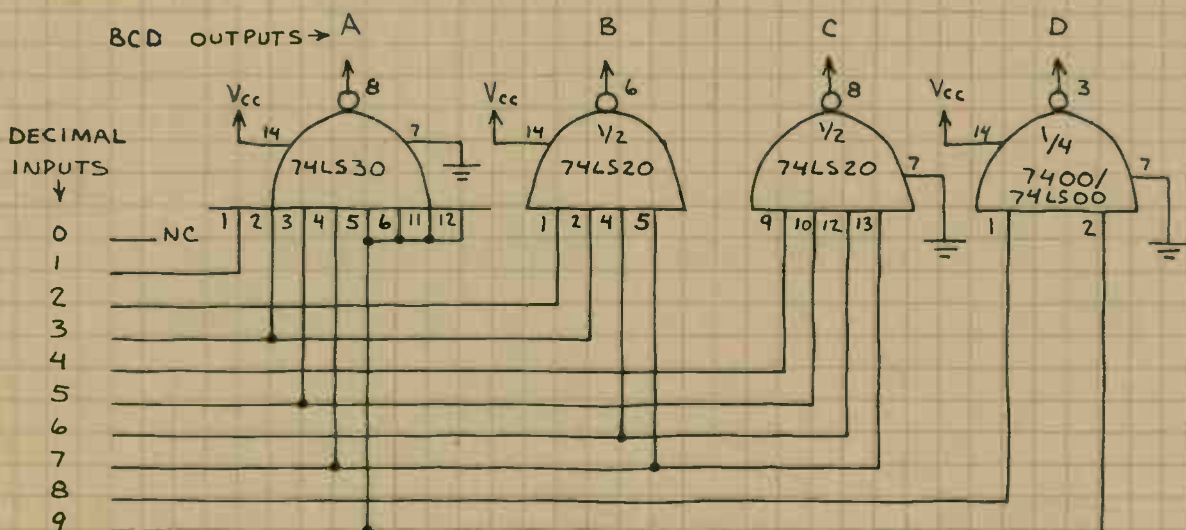
BCD DECODERS





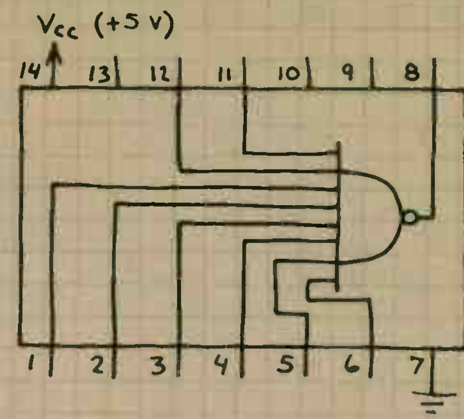
OUTPUTS GO HIGH WHEN APPROPRIATE BCD WORD APPEARS AT INPUTS DCBA. OUTPUTS STAY LOW FOR ALL OTHER INPUTS. (OMIT FINAL INVERTER TO PROVIDE ACTIVE LOW OUTPUT.) USE THIS METHOD TO DECODE ANY 4-BIT NIBBLE.

DECIMAL-TO-BINARY CODED DECIMAL (BCD) ENCODER



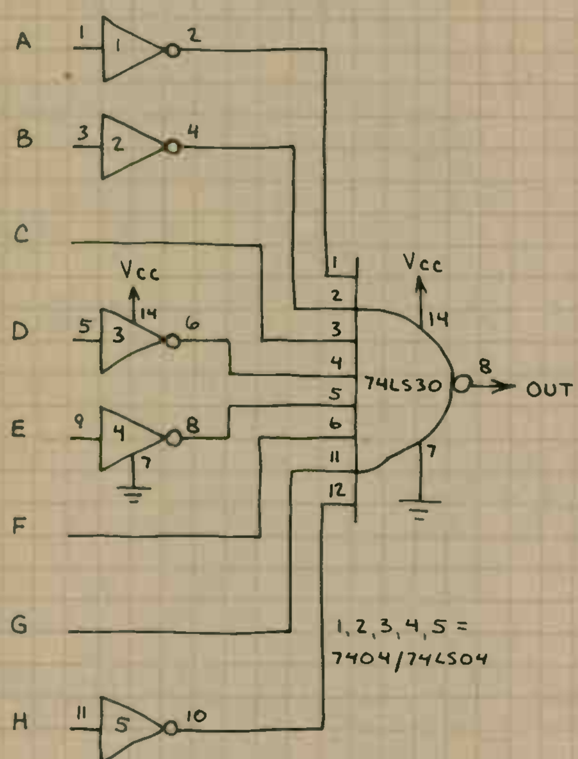
SELECTED INPUT SHOULD BE LOW AND ALL OTHER INPUTS SHOULD BE HIGH. BCD EQUIVALENT WILL APPEAR AT THE OUTPUTS.

8-INPUT NAND GATE
74LS30



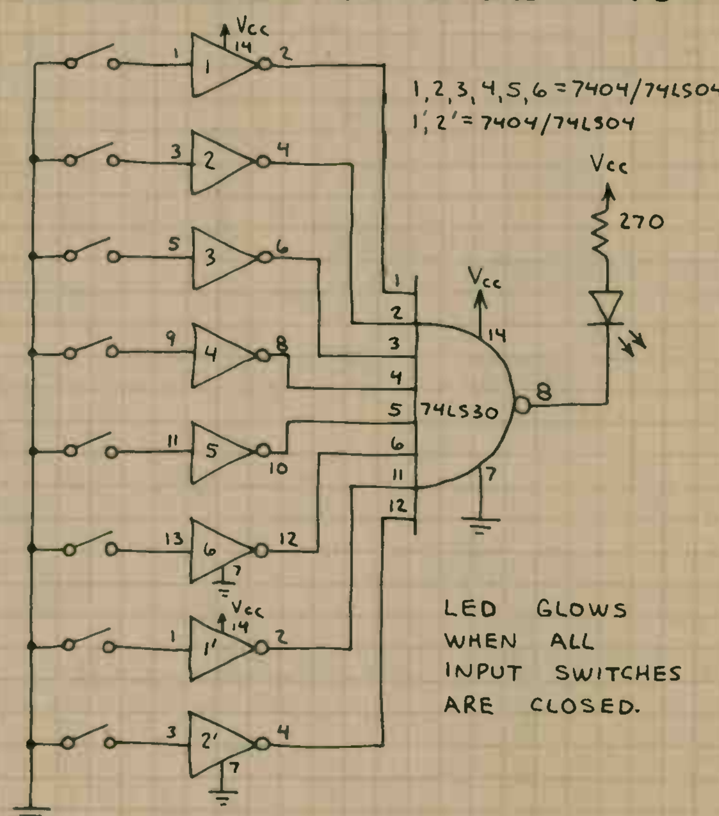
HANDY FOR BYTE-SIZE (8-BIT) DECODING APPLICATIONS. CAN DECODE UP TO 256 INPUT COMBINATIONS. ALSO USEFUL AS PROGRAMMABLE NAND GATE.

8-BIT DECODER



OUTPUT GOES LOW ONLY WHEN INPUT IS LHHLLHLL (DECIMAL 100). UP TO 256 INPUTS CAN BE DECODED BY REARRANGING UP TO 8 INPUT INVERTERS.

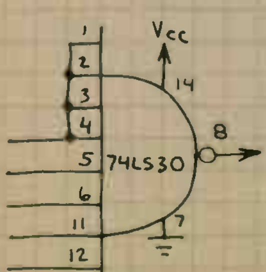
UNANIMOUS VOTE DETECTOR



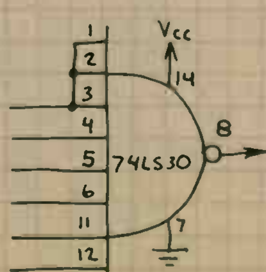
LED GLOWS WHEN ALL INPUT SWITCHES ARE CLOSED.

PROGRAMMABLE NAND GATES

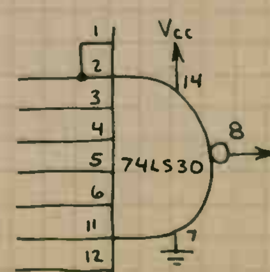
5-INPUT



6-INPUT

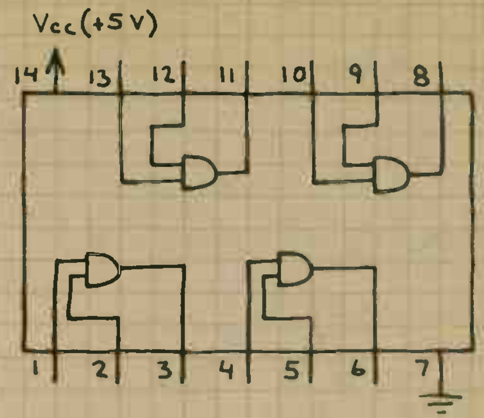


7-INPUT

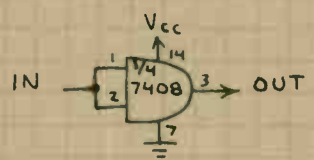


QUAD AND GATE
7408/74LS08

ONE OF THE BASIC BUILDING BLOCK CHIPS. NOT AS VERSATILE, HOWEVER, AS THE 7400/74LS00 QUAD NAND GATE.



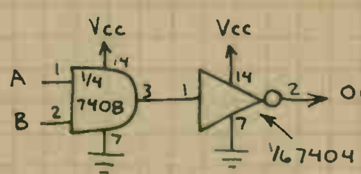
AND GATE BUFFER



IN = OUT

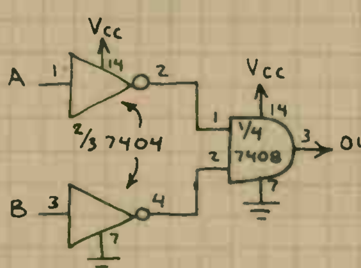
USE FOR INTERFACING WITHOUT CHANGING LOGIC STATES.

NAND GATE



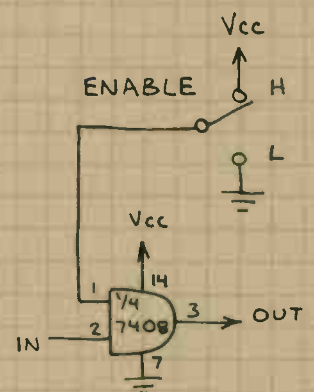
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

NOR GATE



A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

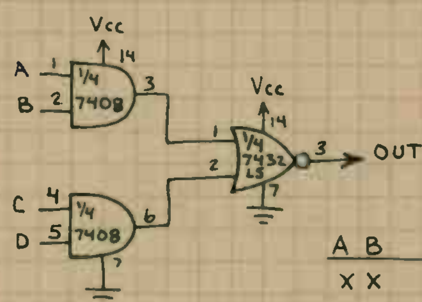
DIGITAL TRANSMISSION GATE



IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

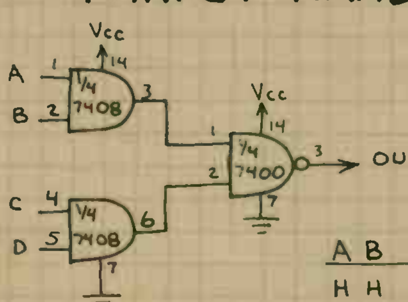
E = ENABLE

AND-OR-INVERT GATE



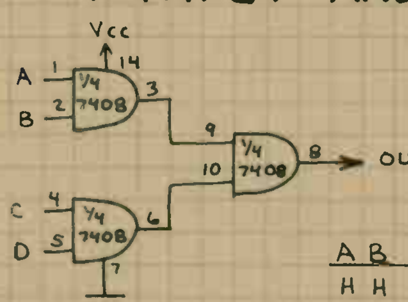
A	B	C	D	OUT
X	X	X	X	H
1	1	X	X	L
1	1	1	1	L

4-INPUT NAND GATE



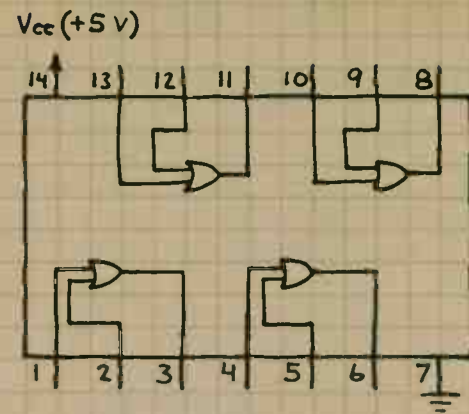
A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	H

4-INPUT AND GATE



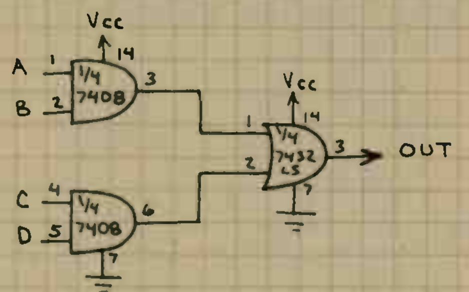
A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L

QUAD OR GATE
74LS32



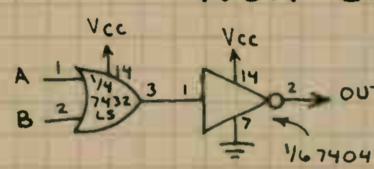
FOUR 2-INPUT OR GATES. NOT AS VERSATILE AS 7402/74LS02 QUAD NOR GATE, BUT VERY USEFUL IN SIMPLE DATA SELECTORS.

AND-OR CIRCUIT



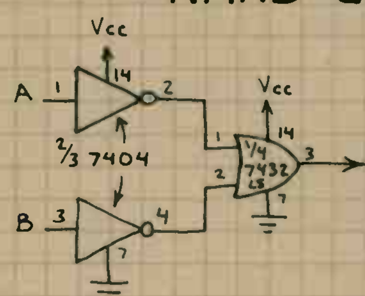
OUTPUT GOES HIGH WHEN BOTH INPUTS OF EITHER OR BOTH AND GATES ARE HIGH; OTHERWISE THE OUTPUT IS LOW. THIS BASIC CIRCUIT IS USED TO MAKE DATA SELECTORS ... AS SHOWN BELOW

NOR GATE



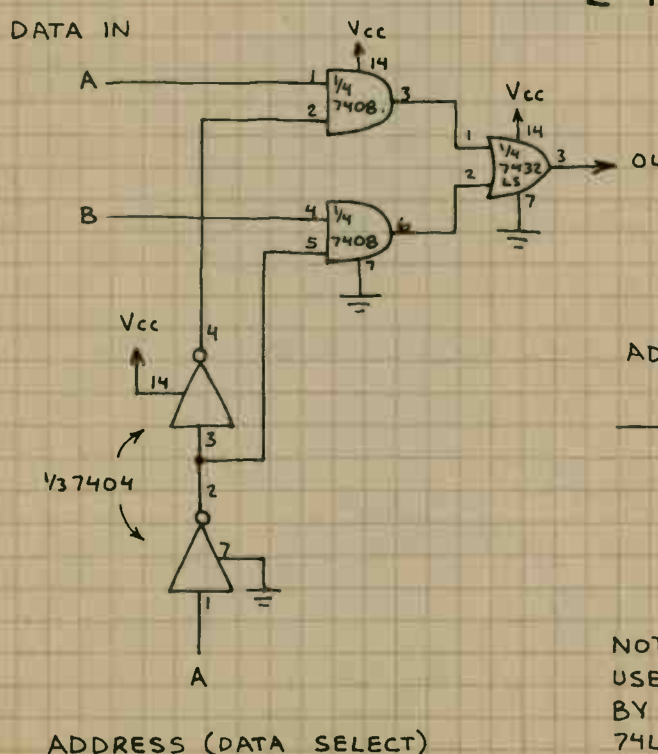
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NAND GATE



A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

2-INPUT DATA SELECTOR

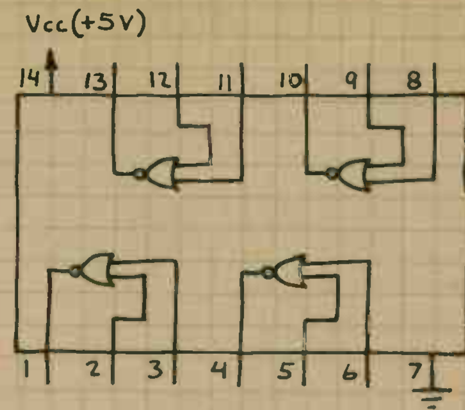


SELECTS 1-OF-2 INPUTS AND TRANSMITS ITS LOGIC STATE TO THE OUTPUT.

ADDRESS	DATA IN		OUT
A	B	A	
L	X	L	L
L	X	H	H
H	L	X	L
H	H	X	H

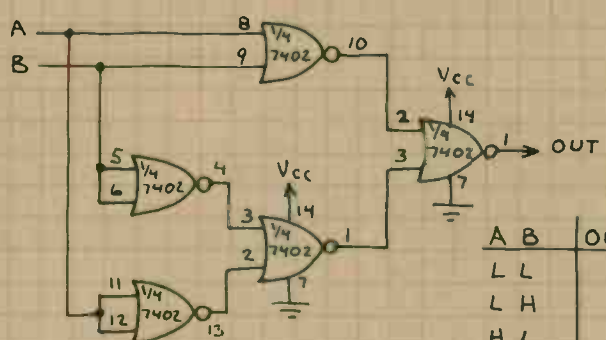
NOTE: FOR 3-INPUT DATA SELECTOR, USE 74LS27 NOR GATE FOLLOWED BY INVERTER AND PRECEEDED BY 74LS10 3-INPUT AND GATES.

QUAD NOR GATE
7402/74LS02



JUST AS VERSATILE AS THE 7400/74LS00 QUAD NAND GATE... BUT NOT USED AS OFTEN. ADD INVERTER (7404/74LS04) TO BOTH INPUTS OF A NOR GATE AND AN AND GATE IS FORMED.

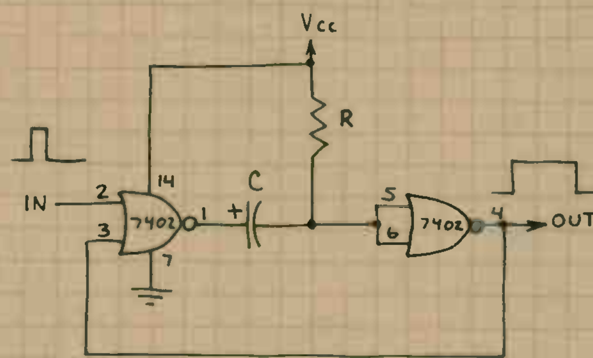
EXCLUSIVE-OR GATE



A B	OUT
L L	L
L H	H
H L	H
H H	L

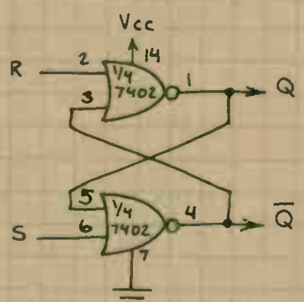
THIS CIRCUIT IS EQUIVALENT TO A BINARY HALF-ADDER.

ONE-SHOT



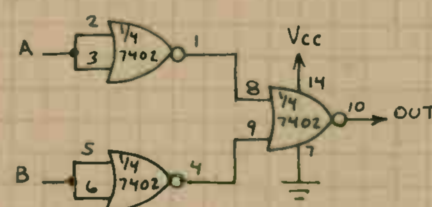
THIS CIRCUIT IS A MONOSTABLE MULTIVIBRATOR OR PULSE STRETCHER. AN INPUT PULSE TRIGGERS AN OUTPUT PULSE WITH A DURATION DETERMINED BY R AND C. OUTPUT PULSE WIDTH IS APPROXIMATELY 0.8RC.

RS LATCH



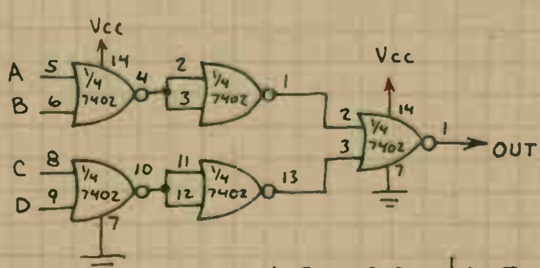
R S	Q $\overline{Q}$
L L	NO CHANGE
L H	H L
H L	L H
H H	NOT ALLOWED

AND GATE



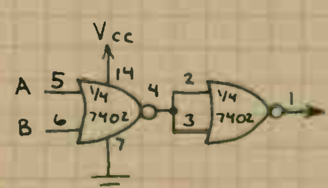
A B	OUT
L L	L
L H	L
H L	L
H H	H

4-INPUT NOR GATE



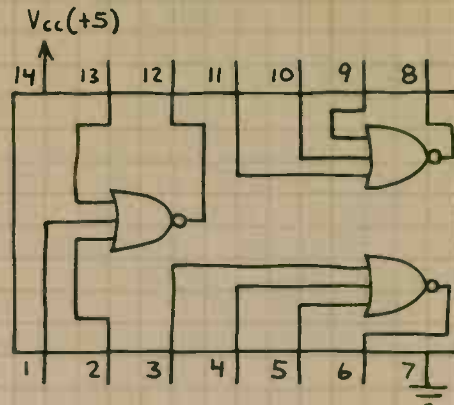
A B	C D	OUT
L L	L L	H
X X	X X	L

OR GATE



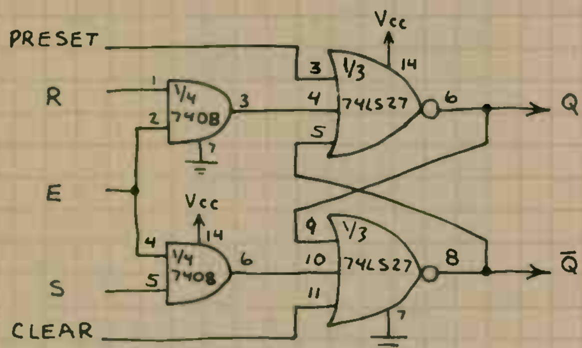
A B	OUT
L L	L
L H	H
H L	H
H H	H

TRIPLE 3-INPUT NOR GATE
74LS27



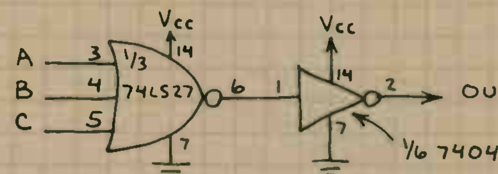
USEFUL FOR DATA SELECTORS AND NOR GATE FLIP-FLOPS THAT REQUIRE CLEAR AND PRESET INPUTS.

GATED RS LATCH



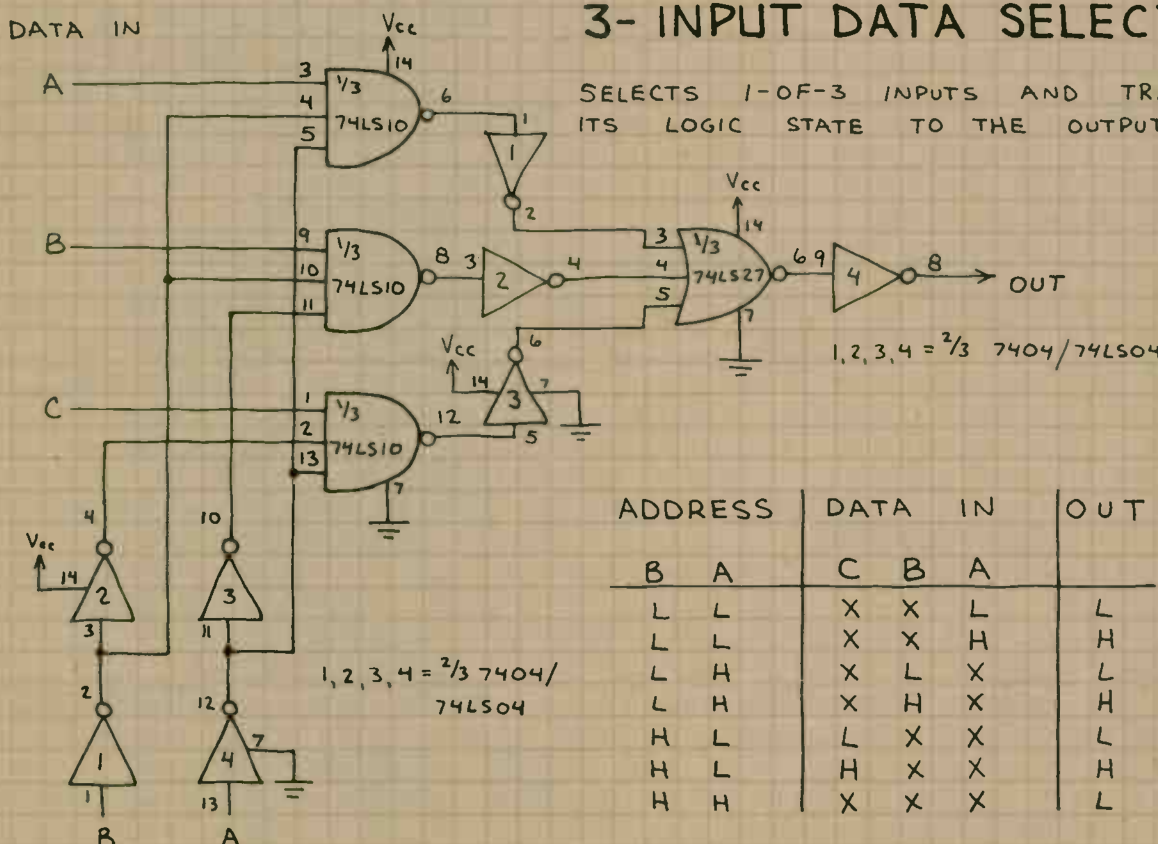
FUNCTIONS AS RS LATCH WHEN E (ENABLE) INPUT IS HIGH. IGNORES RS INPUTS WHEN E IS LOW.

3-INPUT OR GATE



3-INPUT DATA SELECTOR

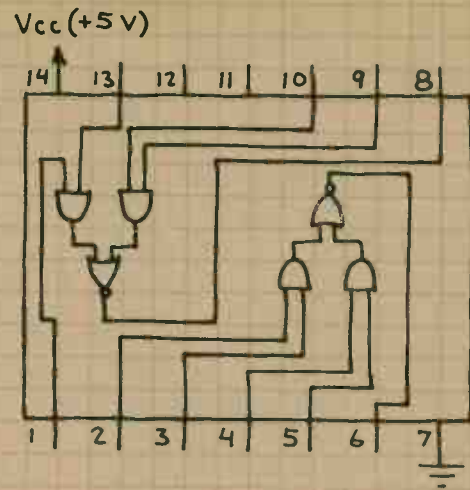
SELECTS 1-OF-3 INPUTS AND TRANSMITS ITS LOGIC STATE TO THE OUTPUT.



ADDRESS (DATA SELECT)

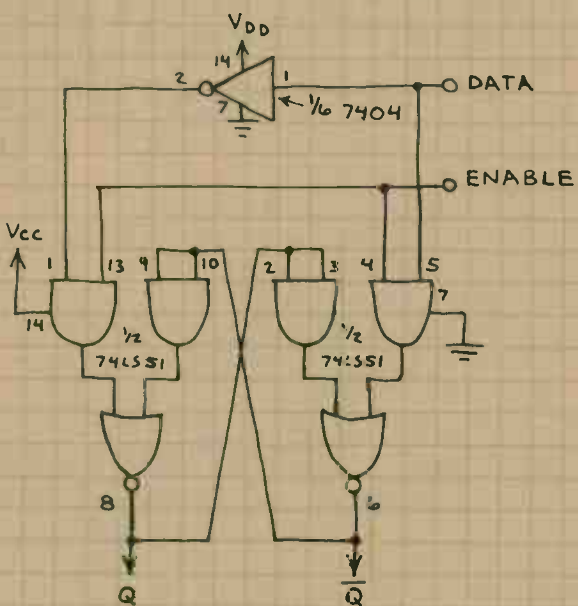
ADDRESS		DATA IN			OUT
B	A	C	B	A	
L	L	X	X	L	L
L	L	X	X	H	H
L	H	X	L	X	L
L	H	X	H	X	H
H	L	L	X	X	L
H	L	H	X	X	H
H	H	X	X	X	L

DUAL AND-OR-INVERT GATE
74LS51



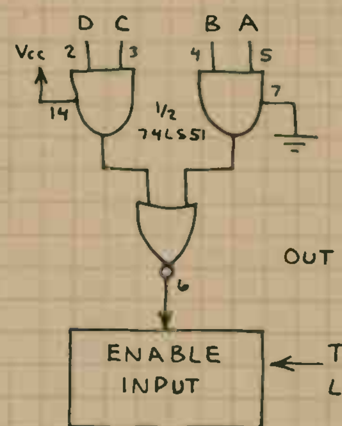
VERY VERSATILE BUILDING BLOCK CHIP. IDEAL FOR CUSTOMIZED DATA SELECTORS, LATCHES AND EXPANSION OF A SINGLE INPUT TO AN AND-OR INPUT.

LATCH WITH ENABLE INPUT



Q OUTPUT FOLLOWS DATA INPUT WHEN ENABLE INPUT IS HIGH. NO CHANGE WHEN ENABLE IS LOW.

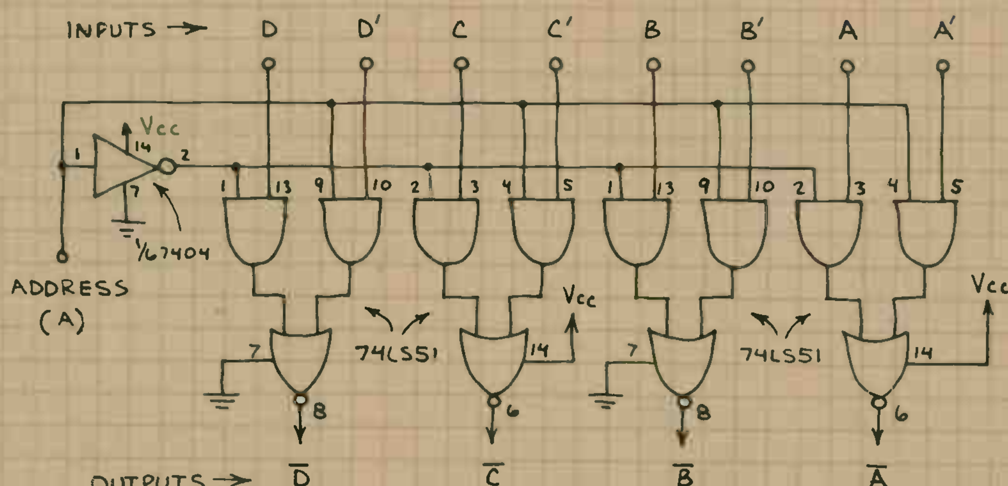
TYPICAL AND-OR INPUT



$OUT = \overline{(AB)+(CD)}$

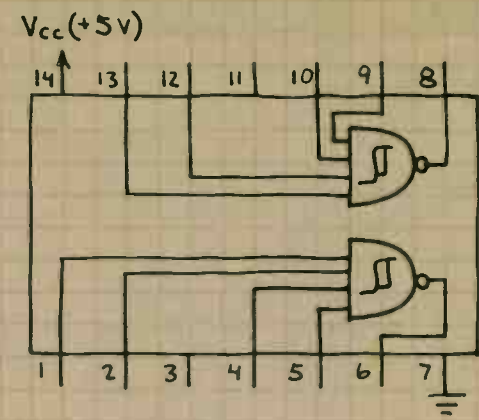
1-OF-2 DATA SELECTOR

THIS CIRCUIT SELECTS 1-OF-2 4-BIT WORDS. NOTE THAT THE SELECTED WORD IS INVERTED AT THE OUTPUTS. THE CIRCUIT REQUIRES TWO 74LS51 CHIPS.



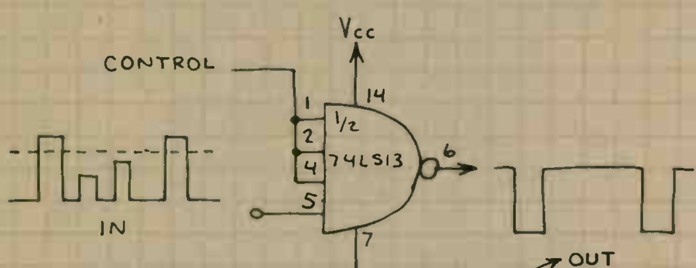
	INPUT		
A	X	X	OUT
H	X	L	H
H	X	H	L
L	L	X	H
L	H	X	L

DUAL NAND SCHMITT TRIGGER 74LS13



TWO 4-INPUT NAND GATES WITH A SWITCHING THRESHOLD. OUTPUTS GO LOW WHEN INPUTS EXCEED 1.7 VOLTS. OUTPUTS GO HIGH WHEN INPUTS FALL TO 0.9 VOLT. IF ANY INPUT IS LOW, THE RESPECTIVE OUTPUT WILL STAY HIGH AND THE GATE WILL NOT TRIGGER.

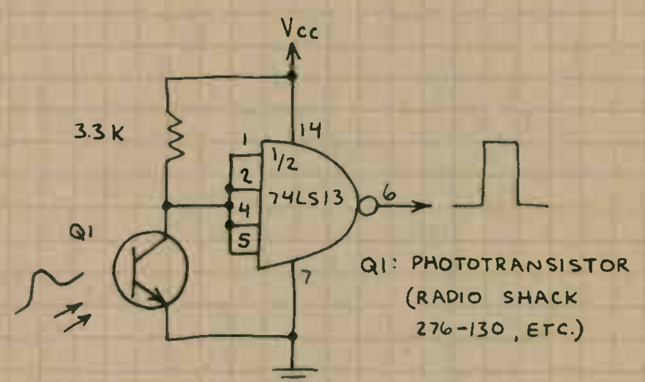
GATED THRESHOLD DETECTOR



--- INDICATES THRESHOLD LEVEL.

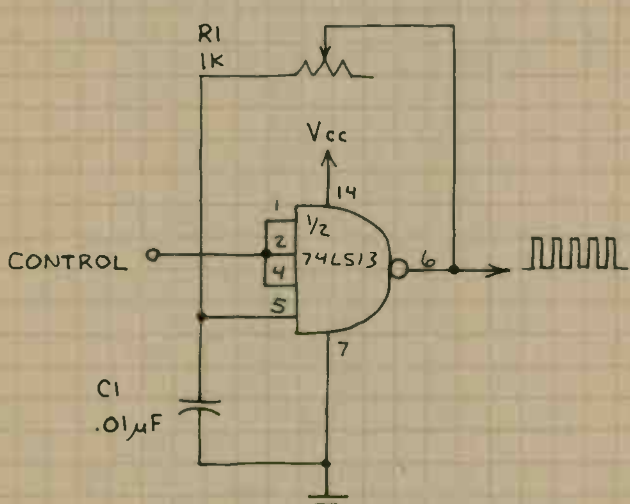
(WHEN CONTROL INPUT IS HIGH.)

PHOTOTRANSISTOR RECEIVER



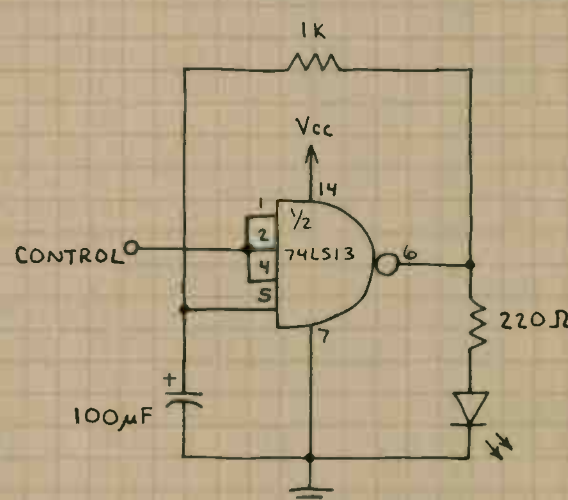
USE TO CLEAN UP INCOMING LIGHT PULSES.

GATED OSCILLATOR



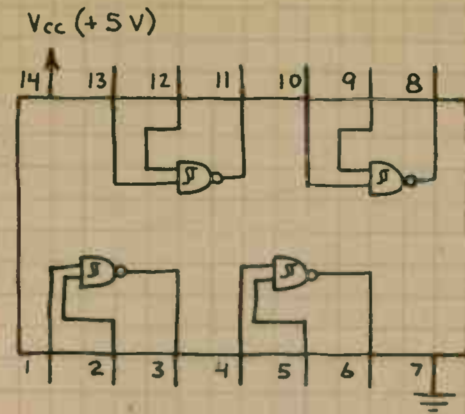
OSCILLATES WHEN CONTROL IS HIGH. CHANGE R1 AND C1 TO CHANGE FREQUENCY. OK TO USE THIS CIRCUIT AS GATED CLOCK FOR LOGIC CIRCUITS.

TWO-STATE LED FLASHER



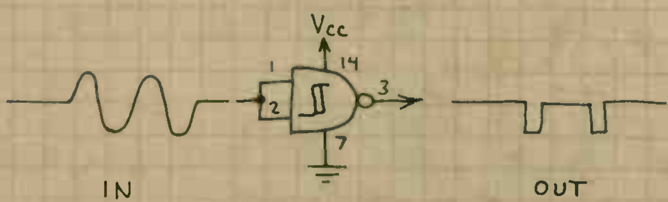
LED FLASHES TWICE EACH SECOND WHEN CONTROL INPUT IS HIGH. LED STAYS ON AND DOES NOT FLASH WHEN CONTROL IS LOW.

QUAD NAND SCHMITT TRIGGER
74LS132

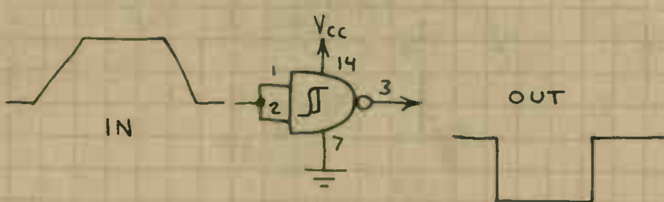


NAND GATES WITH A SWITCHING THRESHOLD. OUTPUTS GO LOW WHEN INPUTS EXCEED 1.7 VOLTS. OUTPUTS GO LOW WHEN INPUTS FALL TO 0.9 VOLT. VERY USEFUL FOR CLEANING UP DIGITAL SIGNALS BEFORE THEY ARE ALLOWED TO ENTER A LOGIC CIRCUIT.

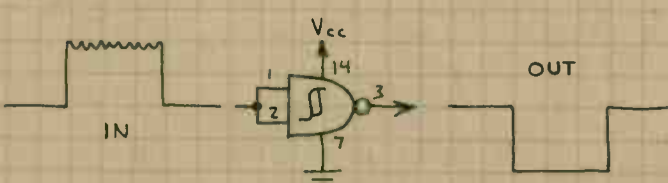
WAVE SHAPER



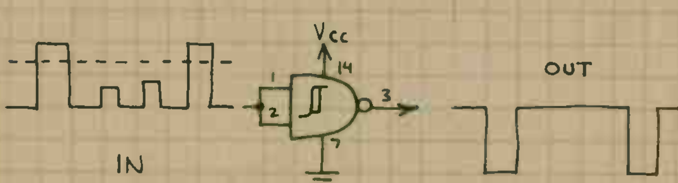
PULSE RESTORER



NOISE ELIMINATOR

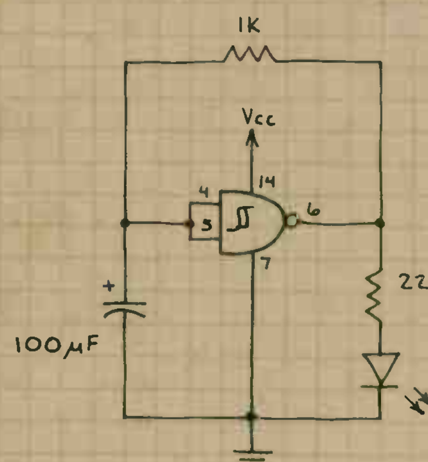


THRESHOLD DETECTOR



--- INDICATES THRESHOLD LEVEL.

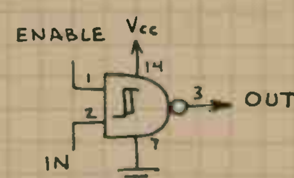
LED FLASHER



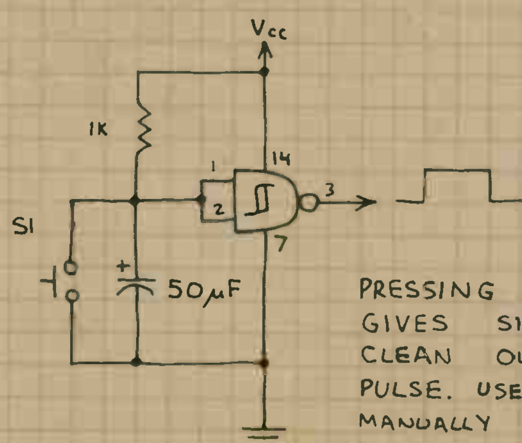
FLASHES ABOUT TWICE EACH SECOND.

ADDING ENABLE INPUT

TRIGGERS WHEN ENABLE INPUT IS HIGH. OUTPUT HIGH WHEN ENABLE LOW.



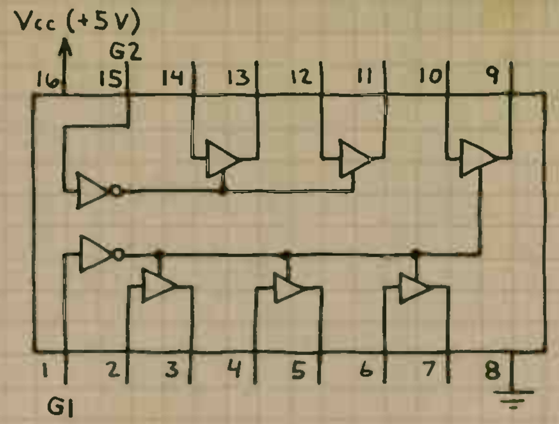
BOUNCELESS PUSHBUTTON



PRESSING S1 GIVES SINGLE, CLEAN OUTPUT PULSE. USE FOR MANUALLY INJECTING LOGIC SIGNALS, ETC.

HEX 3-STATE BUS DRIVER
74LS367

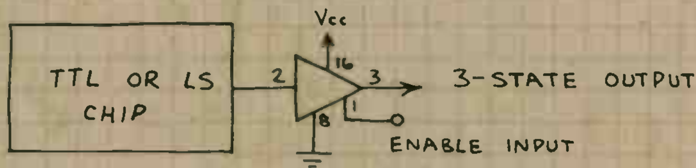
EACH GATE FUNCTIONS AS A NON-INVERTING BUFFER WHEN ITS ENABLE INPUT (G1 OR G2) IS LOW. OTHERWISE EACH GATE'S OUTPUT ENTERS THE HIGH IMPEDANCE (HI-Z) STATE.



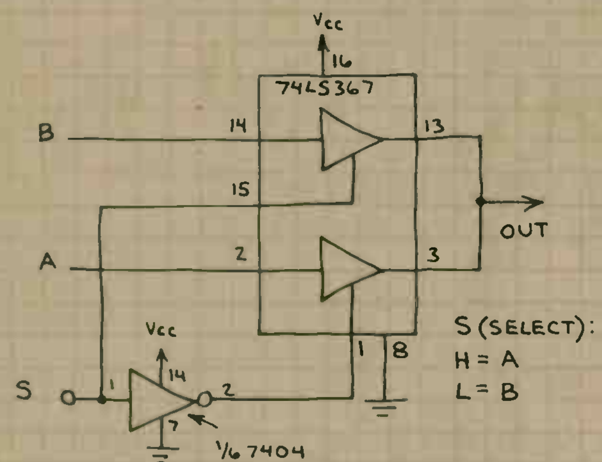
HERE'S THE TRUTH TABLE:

G	IN	OUT
H	X	HI-Z
L	L	L
L	H	H

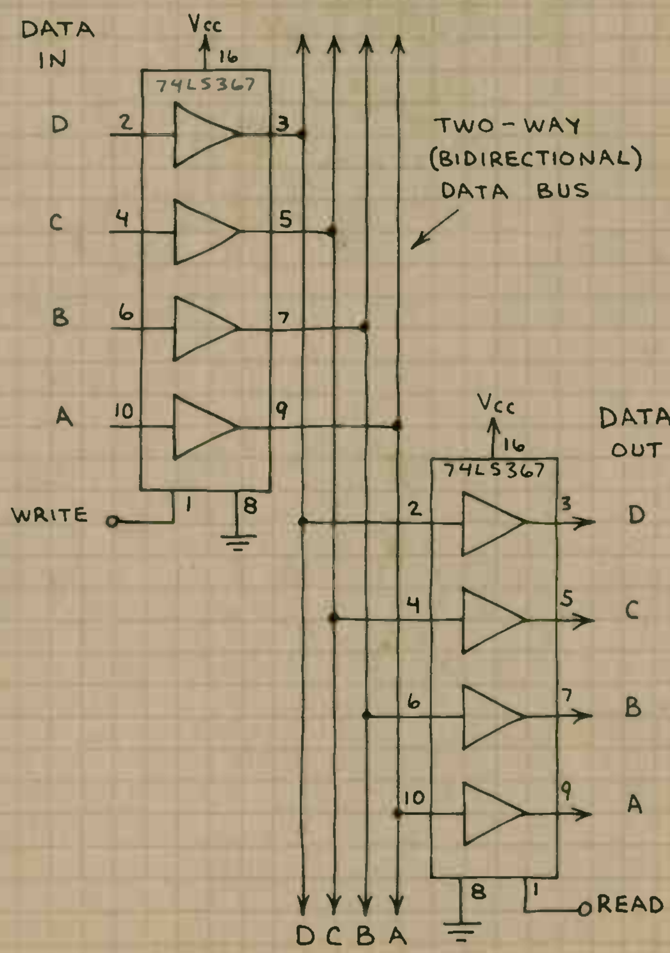
ADDING 3-STATE OUTPUT TO TTL



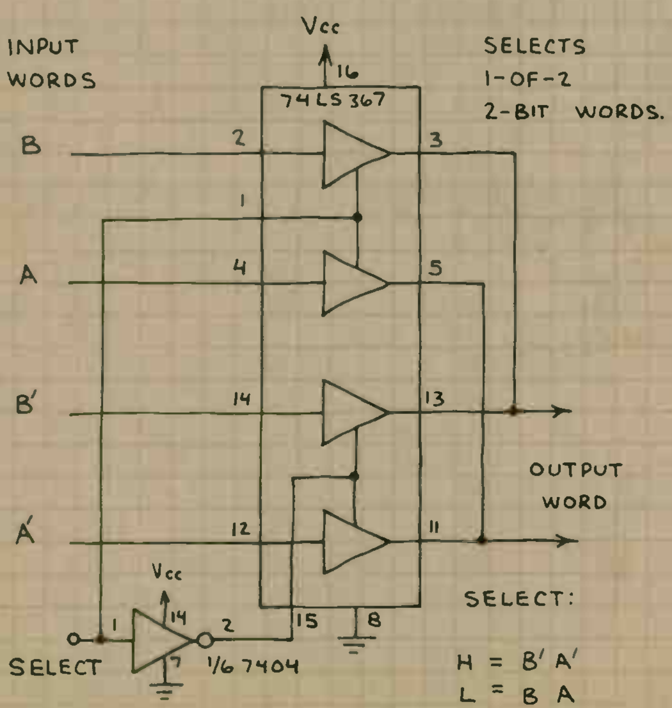
1-OF-2 DATA SELECTOR



BIDIRECTIONAL DATA BUS



1-OF-2 DATA SELECTOR

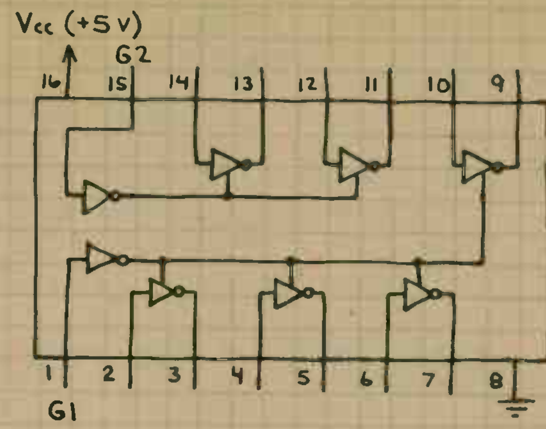


HEX 3-STATE BUS DRIVER
74LS368

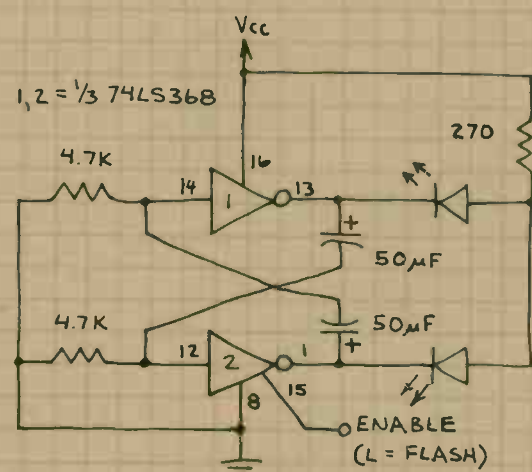
EACH GATE FUNCTIONS AS AN INVERTER WHEN ITS ENABLE INPUT (G1 OR G2) IS LOW. OTHERWISE EACH GATE'S OUTPUT ENTERS THE HIGH IMPEDANCE (HI-Z) STATE.

HERE'S THE TRUTH TABLE:

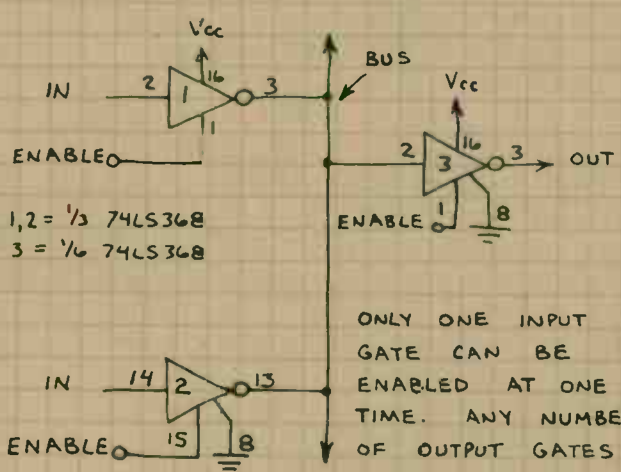
G	IN	OUT
H	X	HI-Z
L	L	H
L	H	L



GATED LED FLASHER

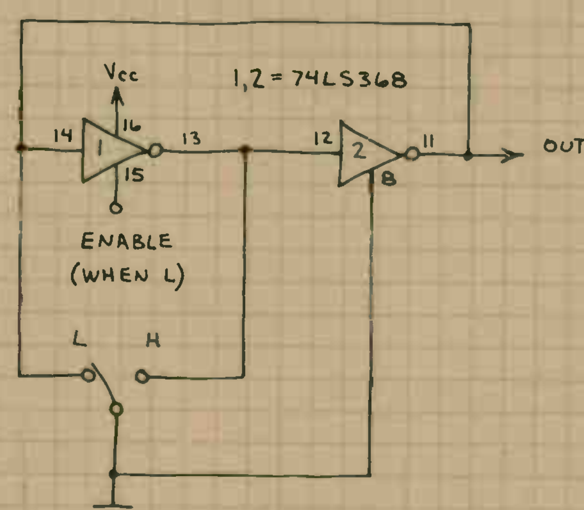


BIDIRECTIONAL DATA BUS

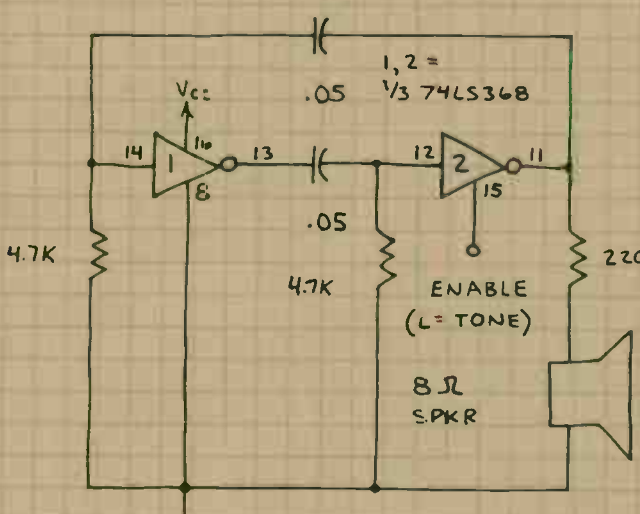


ONLY ONE INPUT GATE CAN BE ENABLED AT ONE TIME. ANY NUMBER OF OUTPUT GATES CAN BE ENABLED.

BOUNCELESS SWITCH (WITH ENABLE)

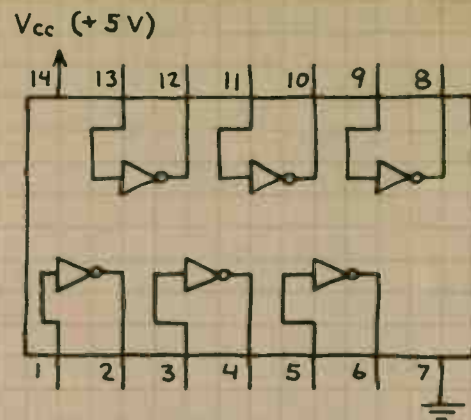


GATED TONE SOURCE



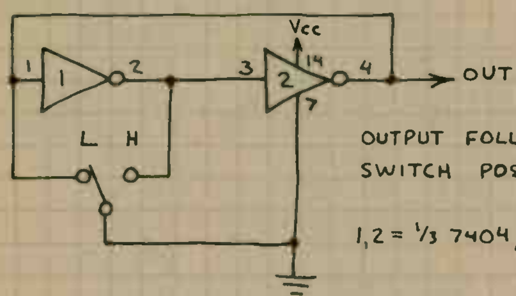
TONE FREQUENCY = 3.8KHz

HEX INVERTER
7404/74LS04



VERY IMPORTANT IN ALMOST ALL LOGIC CIRCUITS. CHANGES AN INPUT TO ITS COMPLEMENT (i.e. H→L AND L→H).

BOUNCEFREE SWITCH

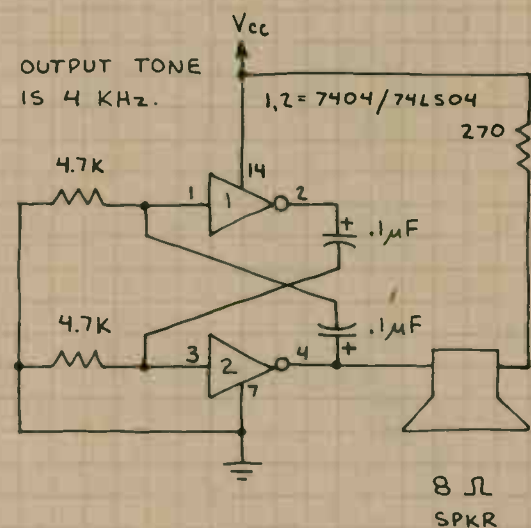


OUTPUT FOLLOWS SWITCH POSITION.

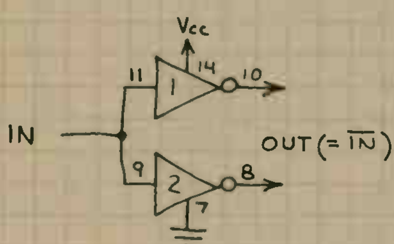
1,2 = 1/3 7404/74LS04

AUDIO OSCILLATOR

OUTPUT TONE IS 4 KHz.

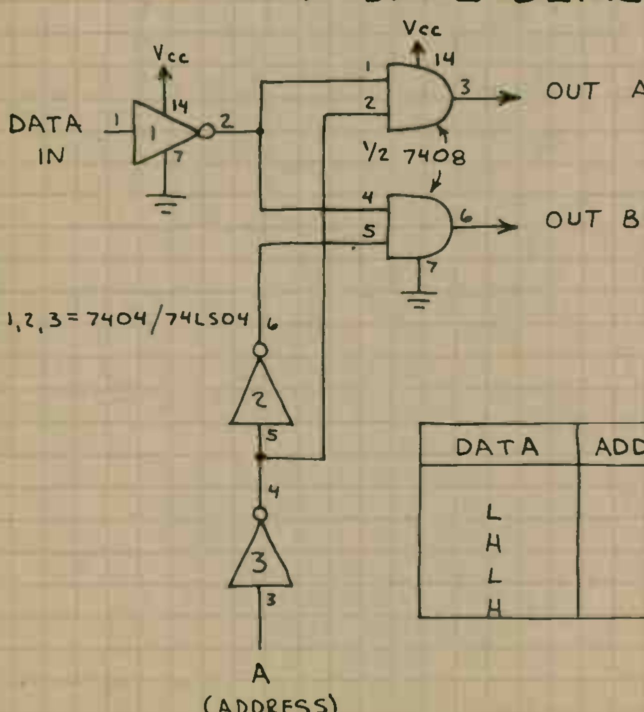


UNIVERSAL EXPANDER



ALLOWS ONE SIGNAL TO CONTROL 2 OR MORE INPUTS.

1-OF-2 DEMULTIPLEXER

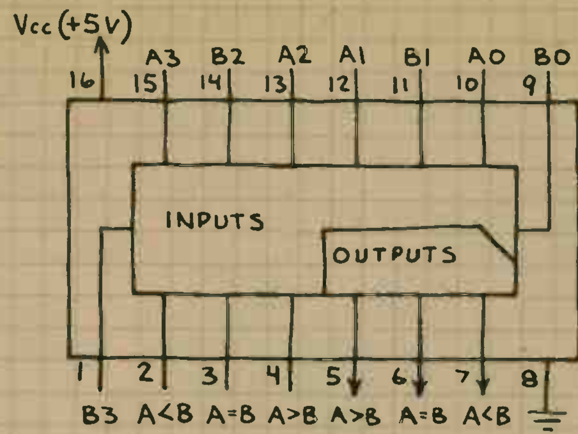


THIS CIRCUIT STEERS THE INPUT BIT TO THE OUTPUT SELECTED BY THE ADDRESS.

THIS TECHNIQUE CAN BE USED TO MAKE MULTIPLE OUTPUT DEMULTIPLEXERS.

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

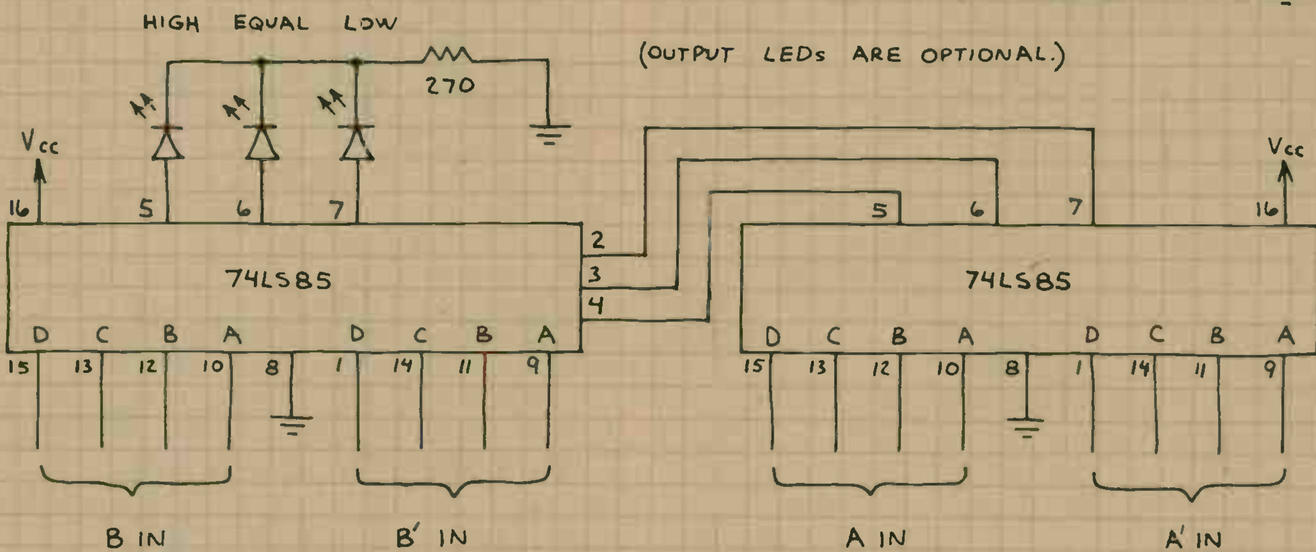
4-BIT MAGNITUDE COMPARATOR 74LS85



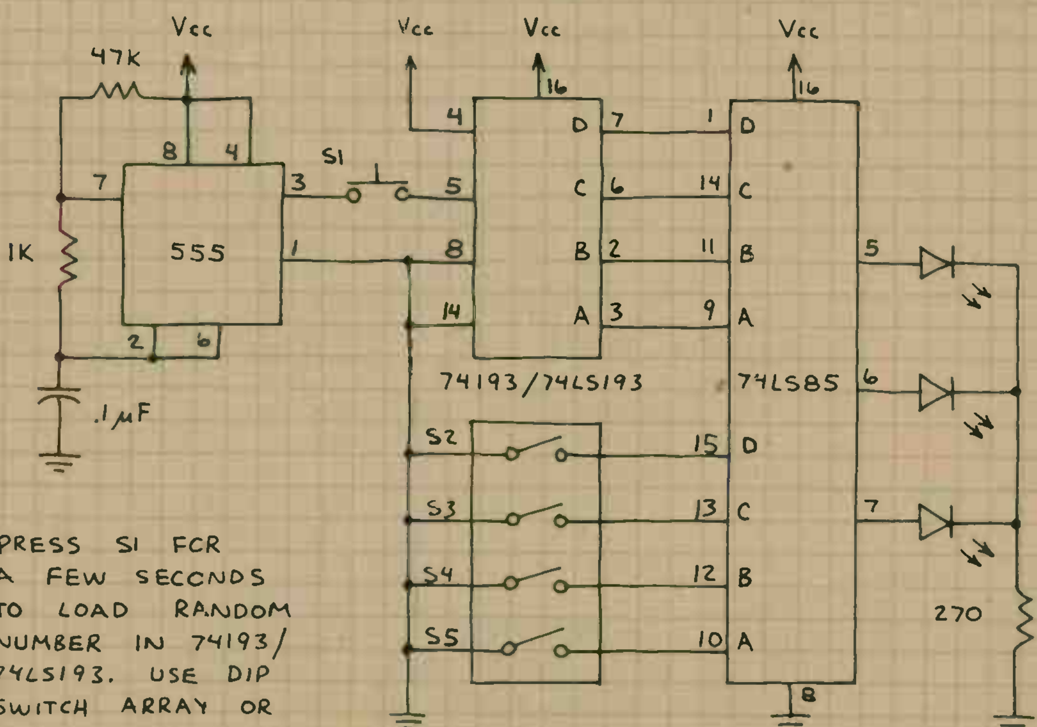
COMPARES TWO 4-BIT WORDS. INDICATES WHICH IS LARGER OR IF THEY ARE EQUAL.

8-BIT COMPARATOR

(OUTPUT LEDs ARE OPTIONAL.)



BINARY HI-LO GAME



ENTER GUESSES IN S2-S5. AN OPEN SWITCH IS HIGH AND A CLOSED SWITCH IS LOW.

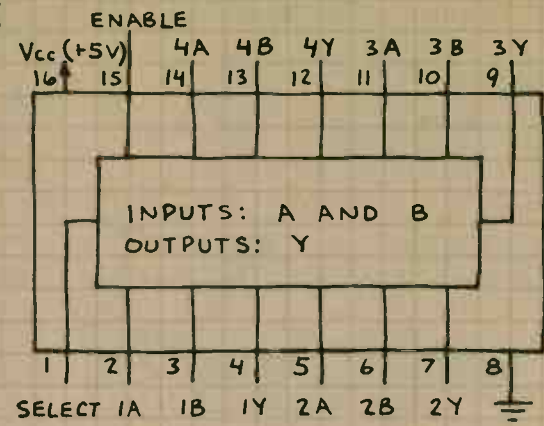
TOO HIGH

CORRECT

TOO LOW

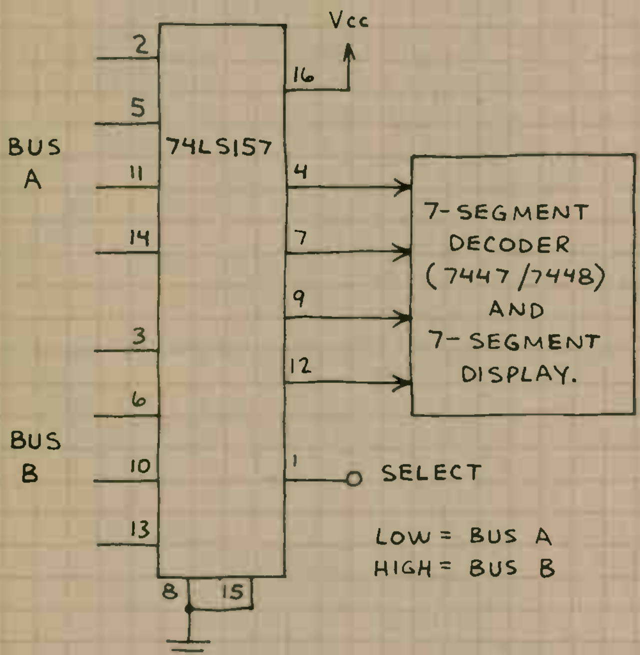
PRESS S1 FOR A FEW SECONDS TO LOAD RANDOM NUMBER IN 74193/74LS193. USE DIP SWITCH ARRAY OR TOGGLES FOR S2-S5

QUAD 1-OF-2 DATA SELECTOR
74LS157

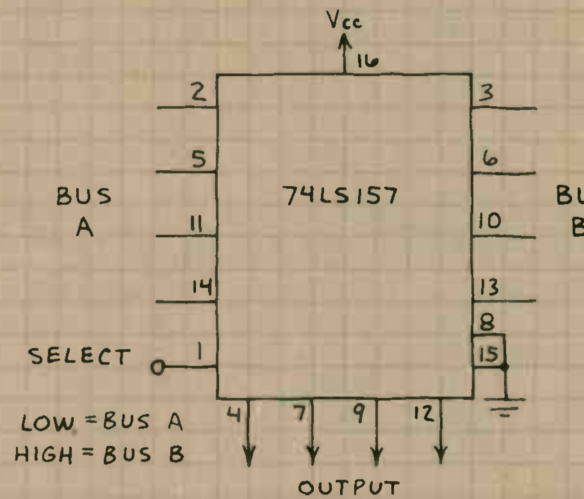


FOUR 2-LINE TO 1-LINE MULTIPLEXERS. MANY USES IN ROUTING DATA. ALL 4 DATA SELECTORS ARE ENABLED WHEN PIN 15 IS LOW.

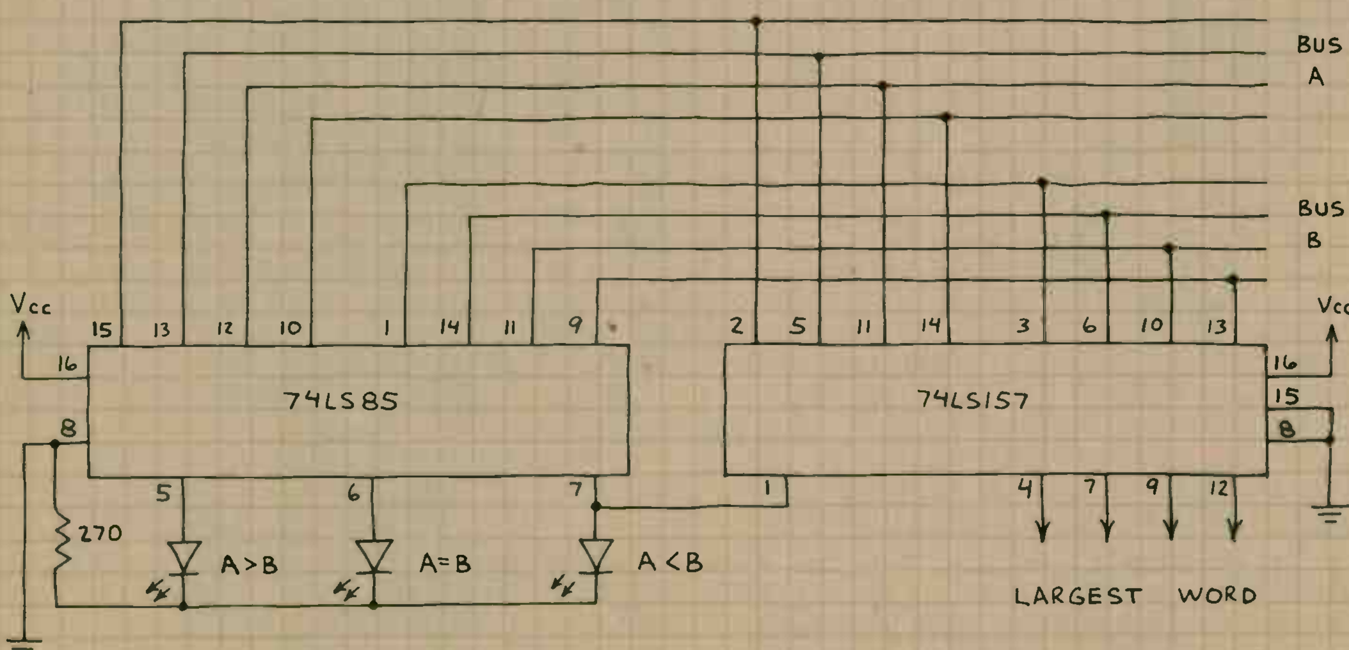
DOUBLE DUTY DISPLAY



BUS SELECTOR

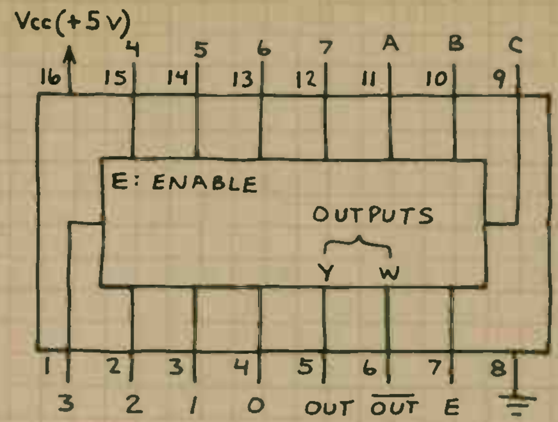


WORD SORTER



THIS CIRCUIT CONTINUALLY MONITORS TWO DATA BUSES. BUS WITH HIGHEST MAGNITUDE DATA WORD IS ROUTED AUTOMATICALLY TO OUTPUT.

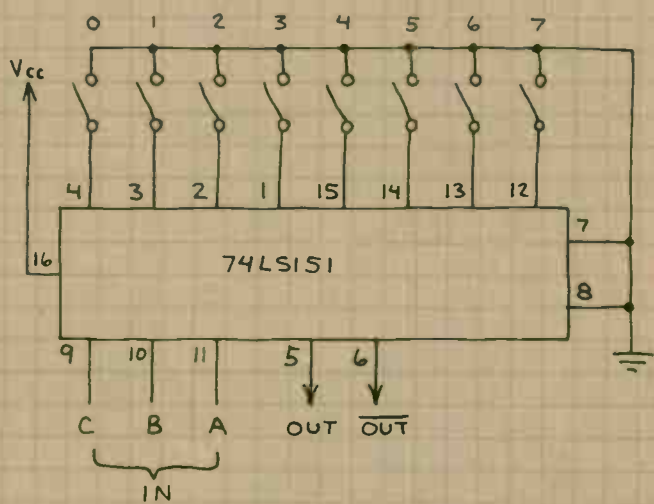
1-OF-8 DATA SELECTOR
74LS151



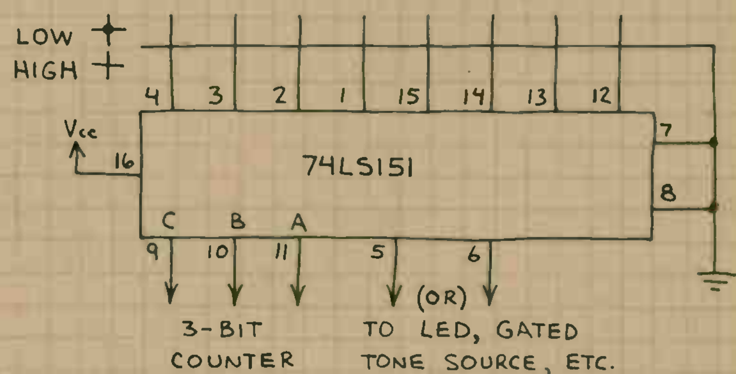
EQUIVALENT TO 8-LINE TO 1-LINE MULTIPLEXER.

PROGRAMMABLE GATE

3-BIT ADDRESS SELECTS ONE SWITCH AND APPLIES ITS STATUS (OPEN = HIGH AND CLOSED = LOW) TO THE OUTPUT. ANY 3-INPUT LOGIC FUNCTION CAN BE PROGRAMMED IN SECONDS.

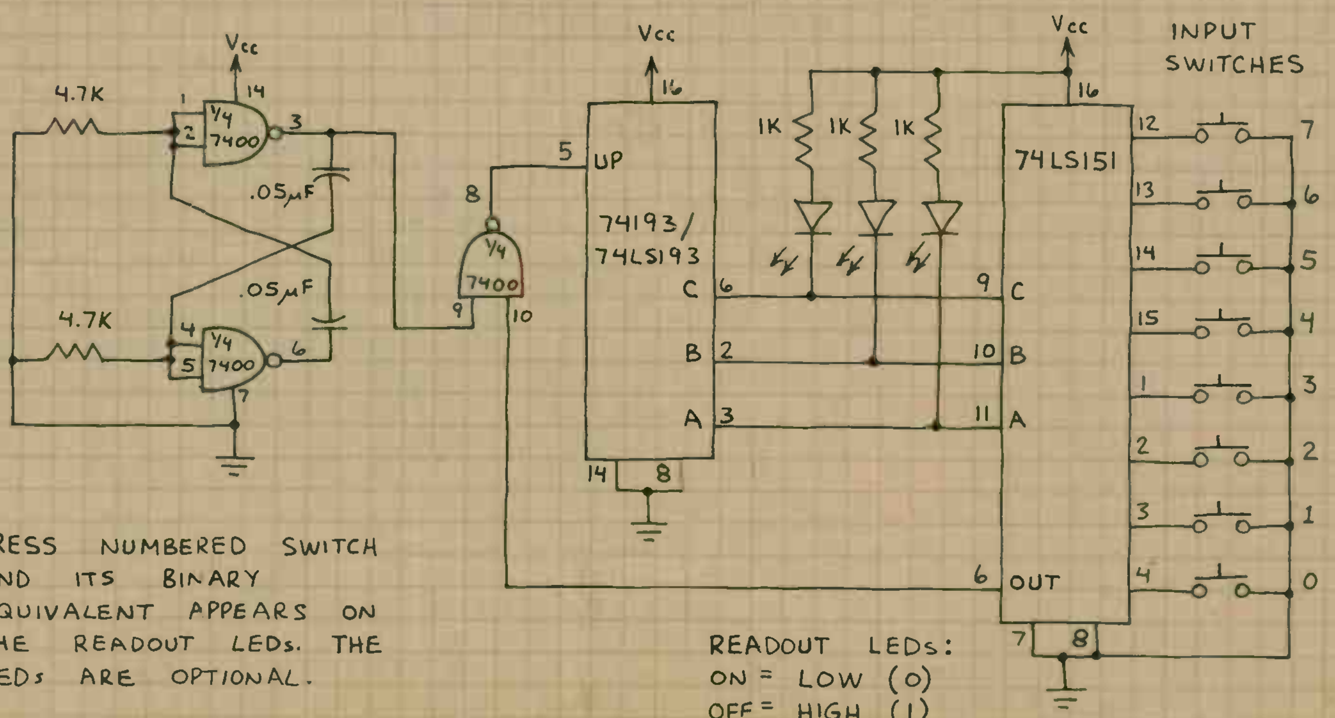


PATTERN GENERATOR



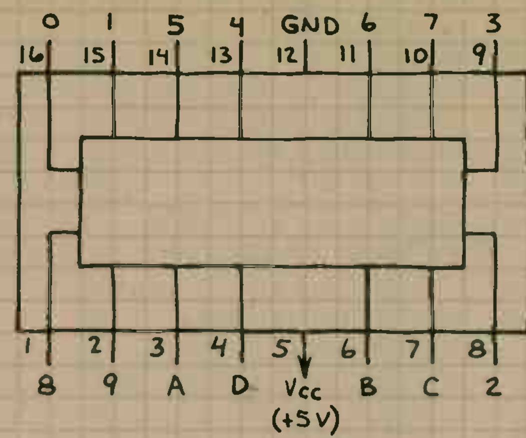
PROGRAM ANY DESIRED LOW-HIGH BIT PATTERN. THEN PLAY IT BACK.

OCTAL KEYBOARD ENCODER



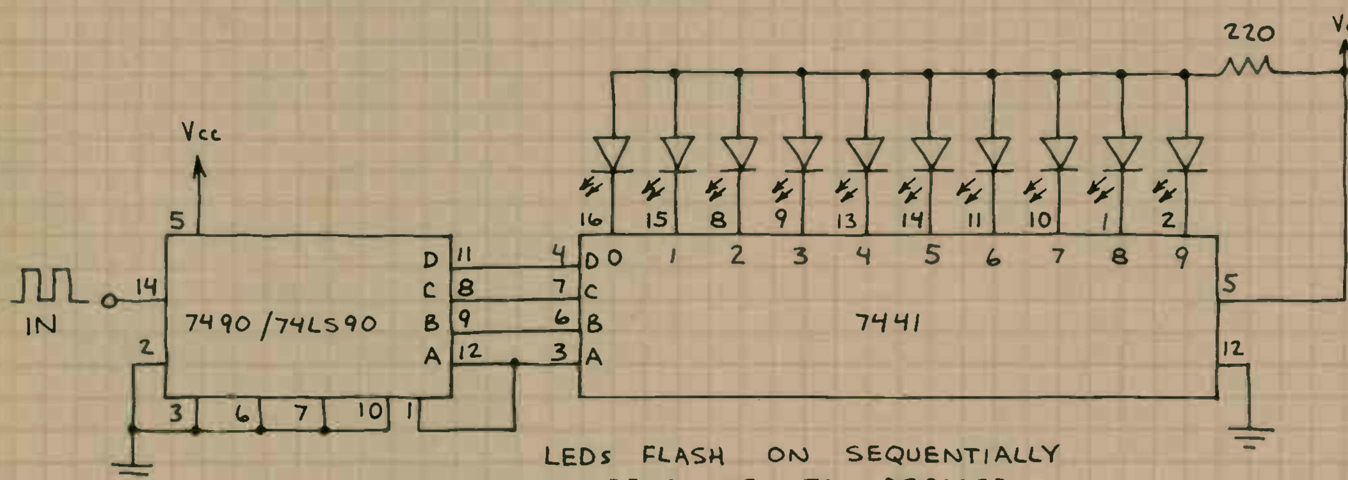
PRESS NUMBERED SWITCH AND ITS BINARY EQUIVALENT APPEARS ON THE READOUT LEDs. THE LEDs ARE OPTIONAL.

BCD-TO-DECIMAL DECODER
7441



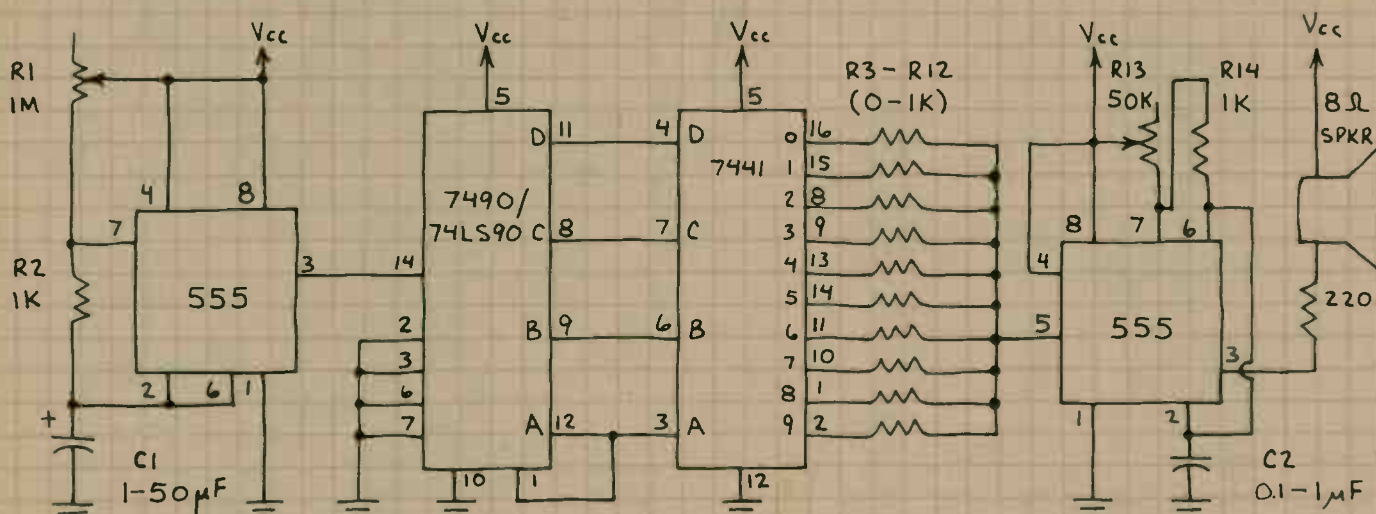
DECODES 4-BIT BCD INPUT INTO 1-OF-10 OUTPUTS. SELECTED OUTPUT GOES LOW; ALL OTHERS STAY HIGH. ORIGINALLY DESIGNED TO DRIVE GASEOUS GLOW DISCHARGE TUBES. ALL OUTPUTS GO HIGH FOR BINARY INPUTS EXCEEDING HLLH (1001).

1-OF-10 DECODED COUNTER



LEDs FLASH ON SEQUENTIALLY IN RESPONSE TO DECODED COUNT. ONLY ONE LED SERIES RESISTOR IS REQUIRED.

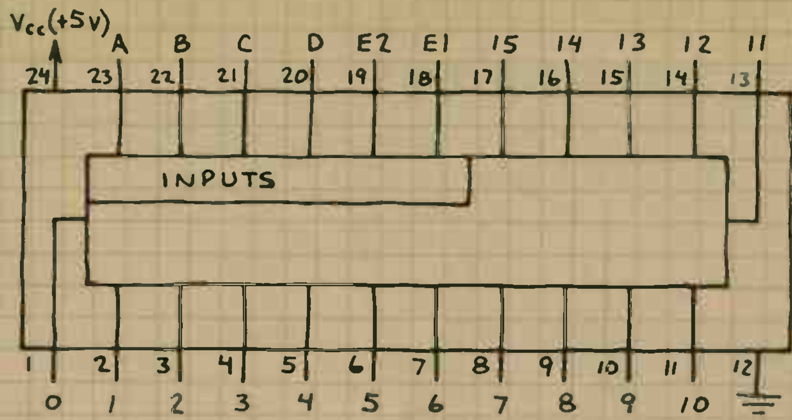
10-NOTE TONE SEQUENCER



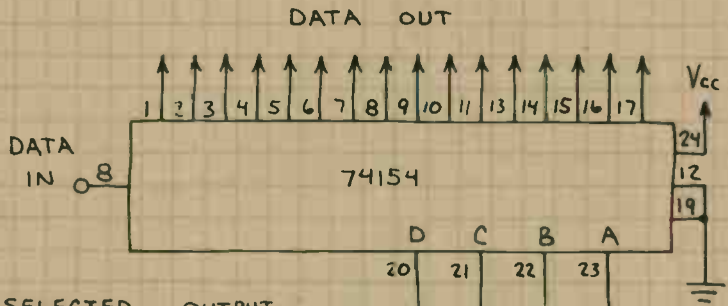
INCREASE C1 TO DECREASE TEMPO. INCREASE C2 TO INCREASE TONE FREQUENCIES. TONES ARE DETERMINED BY R3-R12.

4-LINE TO 16-LINE DECODER
74154

EACH 4-BIT ADDRESS DRIVES ONE OUTPUT LOW. ALL OTHERS STAY HIGH. ENABLE INPUTS (E1 AND E2) MUST BE LOW. IF ONE OR BOTH ARE HIGH, ALL OUTPUTS GO LOW.

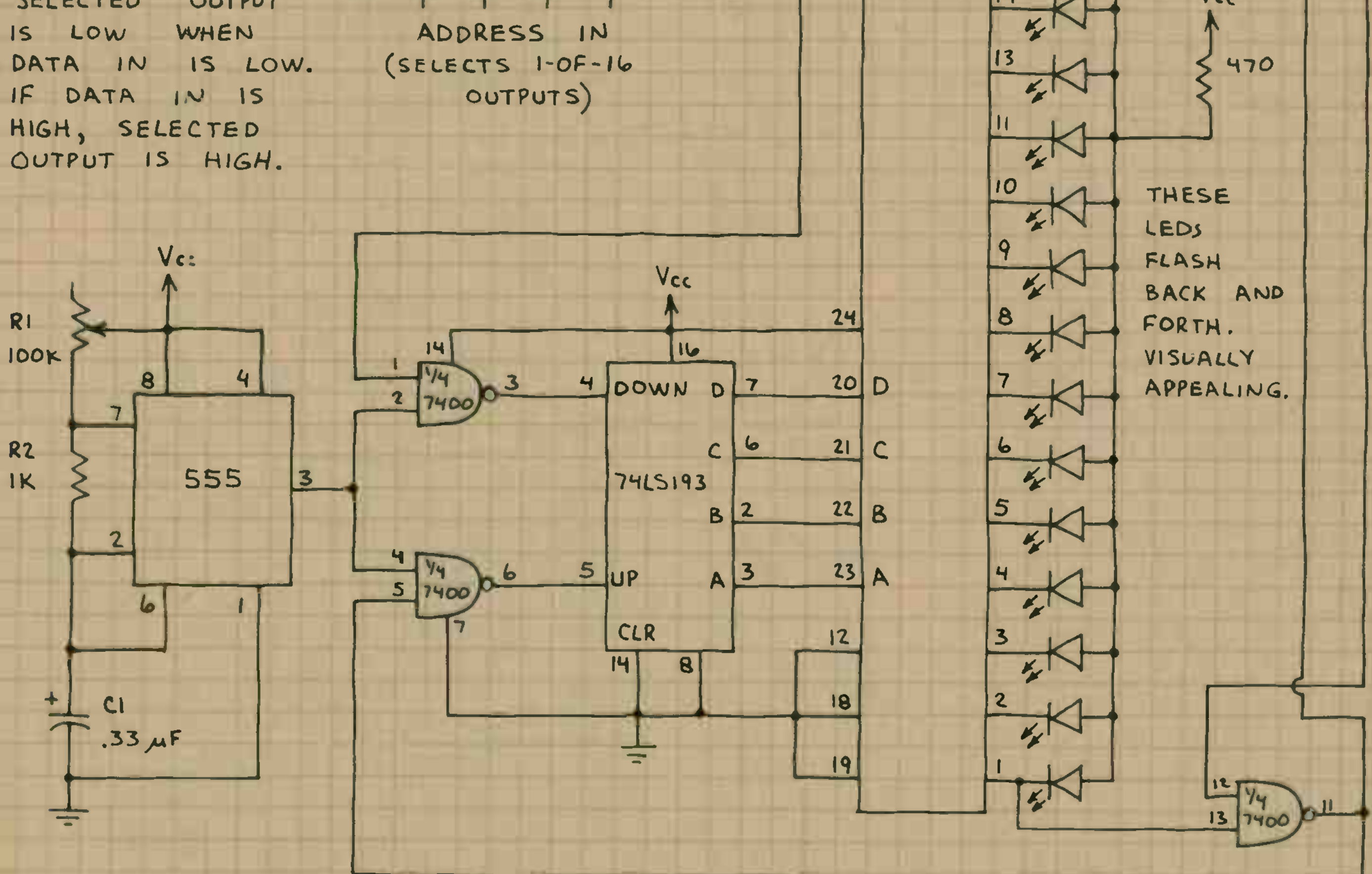


1-TO-16 DEMULTIPLEXER



SELECTED OUTPUT IS LOW WHEN DATA IN IS LOW. IF DATA IN IS HIGH, SELECTED OUTPUT IS HIGH.

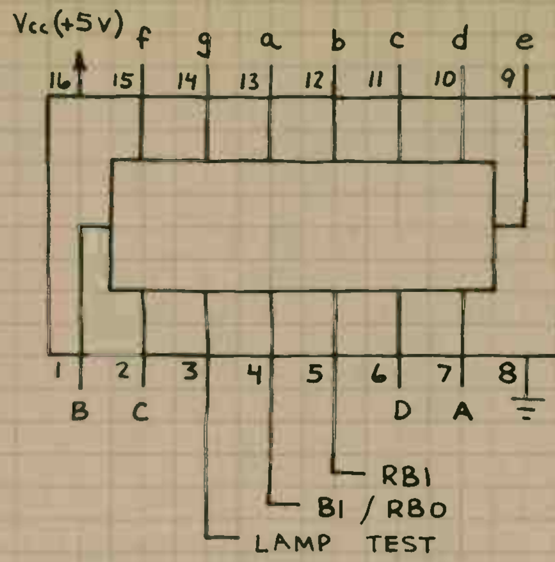
BACK AND FORTH FLASHER



INCREASE R1 TO SLOW FLASH RATE.

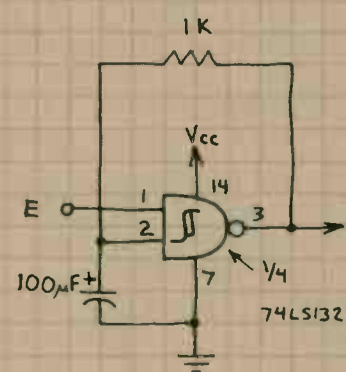
BCD-TO-7 SEGMENT DECODER / DRIVER

7447 / 74LS47



CONVERTS BCD DATA INTO FORMAT SUITABLE FOR PRODUCING DECIMAL DIGITS ON COMMON ANODE LED 7-SEGMENT DISPLAY. WHEN LAMP TEST INPUT IS LOW, ALL OUTPUTS ARE LOW (ON). WHEN BI / RBO (BLANKING INPUT) IS LOW, ALL OUTPUTS ARE HIGH (OFF). WHEN DCBA INPUT IS LLLL (DECIMAL 0) AND RBI (RIPPLE BLANKING INPUT) IS LOW, ALL OUTPUTS ARE HIGH (OFF). THIS PERMITS UNWANTED LEADING 0's IN A ROW OF DIGITS TO BE BLANKED.

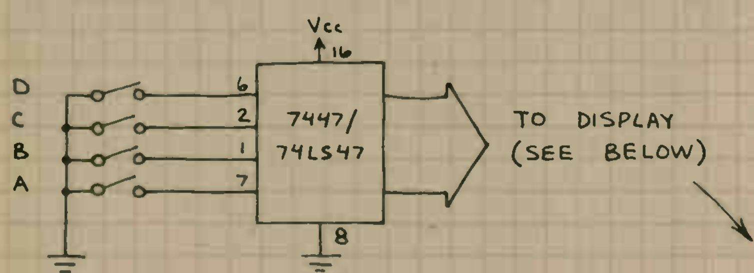
DISPLAY FLASHER



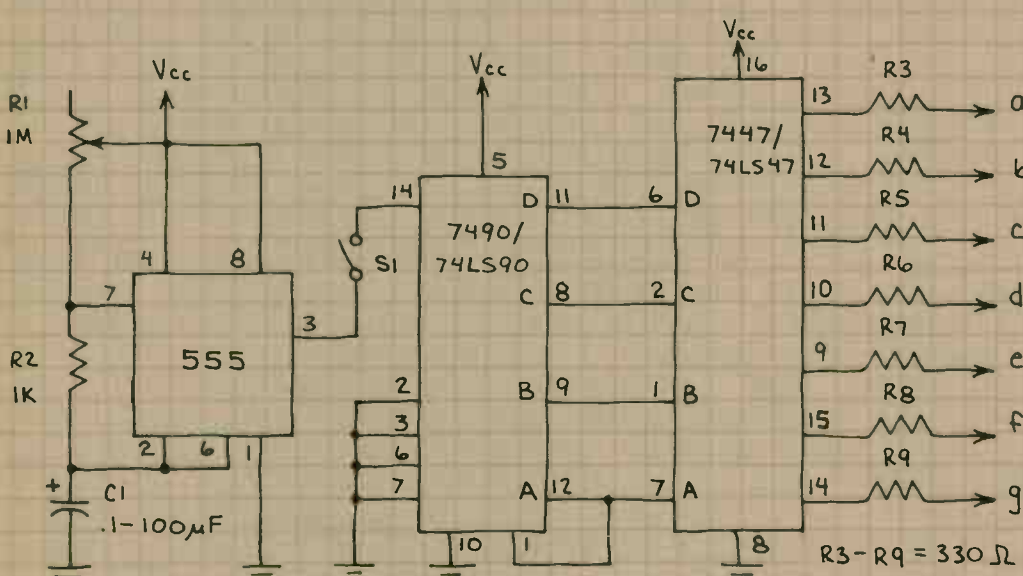
THIS SIMPLE CIRCUIT WILL FLASH DISPLAY TWICE PER SECOND.

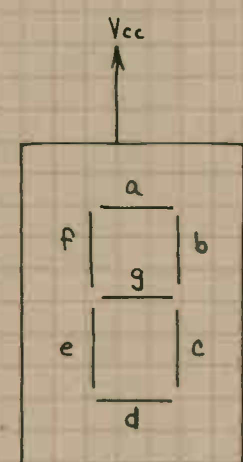
E	DISPLAY
H	STEADY
L	FLASHES

MANUALLY SWITCHED DISPLAY



0-9 SECOND / MINUTE TIMER



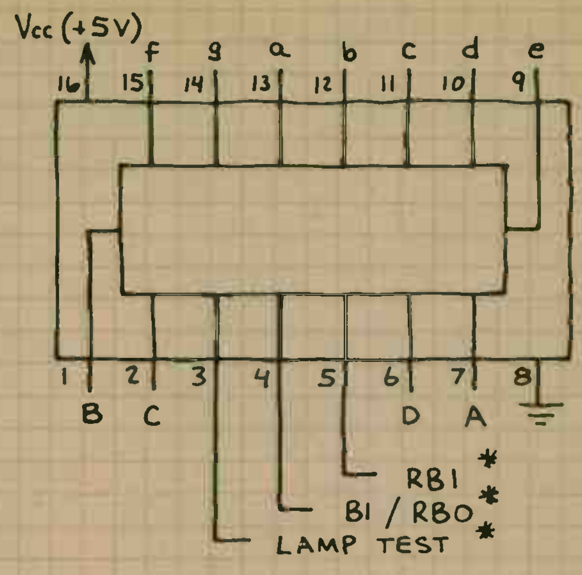


COMMON ANODE LED DISPLAY

CLOSE S1 TO START TIMING CYCLE. CALIBRATE 555 FOR 1 PULSE (COUNT) PER SECOND <u>OR</u> 1 COUNT PER MINUTE BY ADJUSTING R1.

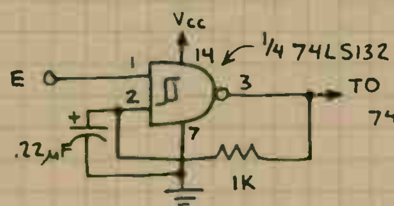
BCD-TO-7-SEGMENT DECODER/DRIVER 7448

CONVERTS BCD DATA INTO FORMAT SUITABLE FOR PRODUCING DECIMAL DIGITS ON COMMON CATHODE LED 7-SEGMENT DISPLAY.



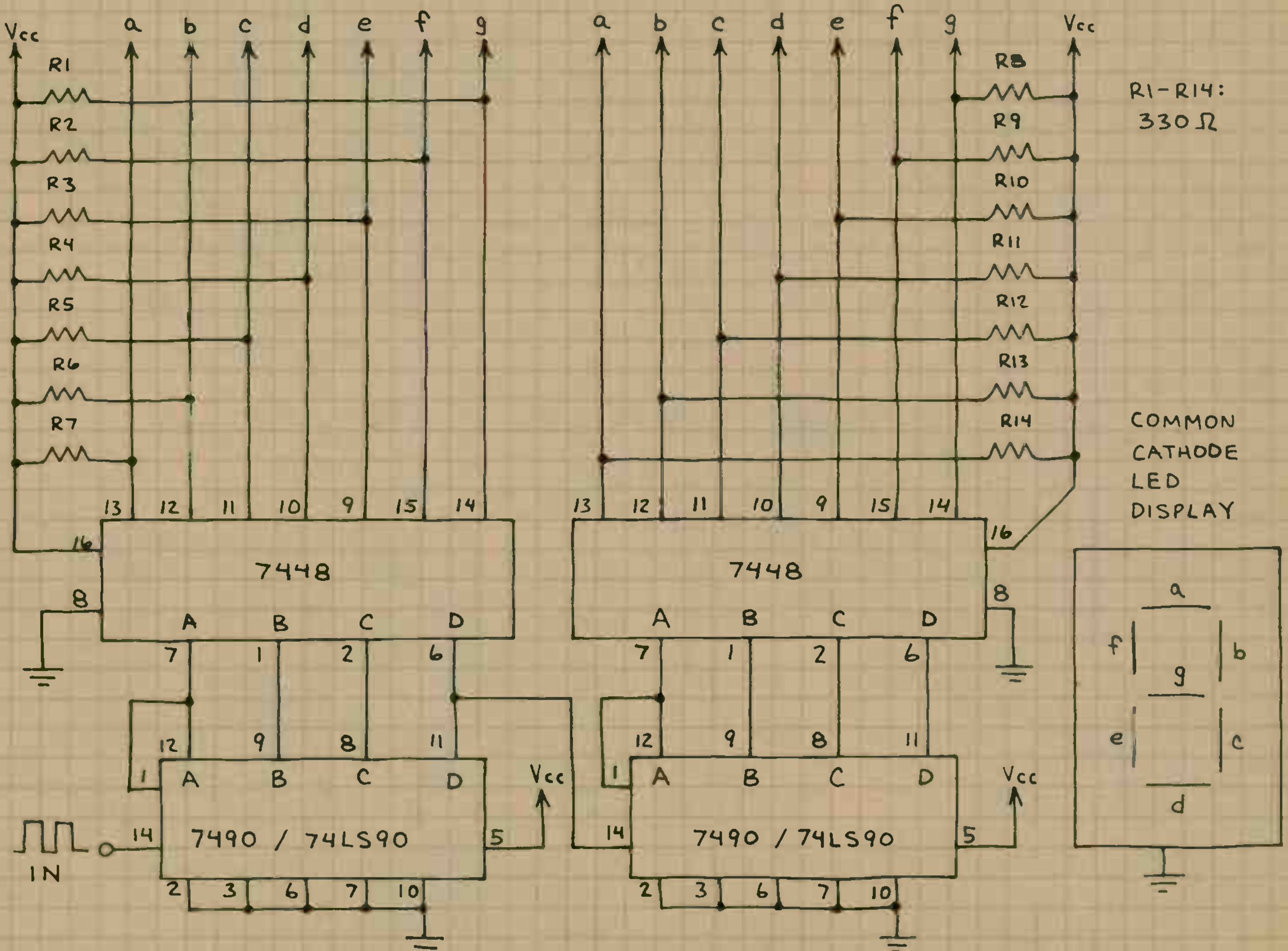
*SEE 7447 FOR EXPLANATIONS.

DISPLAY DIMMER

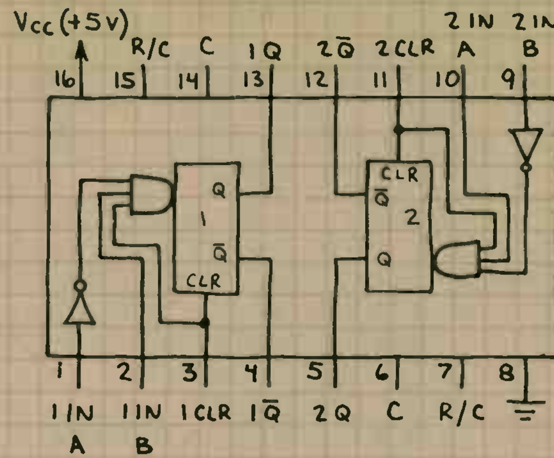


E	DISPLAY
H	NORMAL
L	DIM

0-99 TWO DIGIT COUNTER

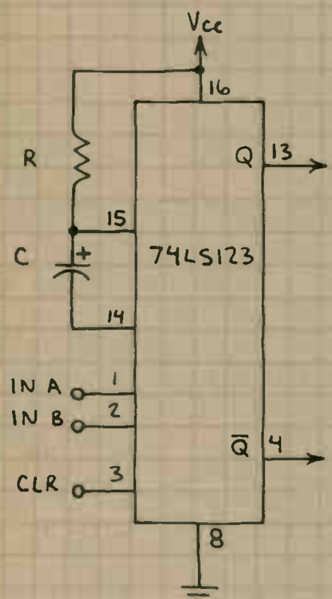


DUAL ONE-SHOT
74LS123



TWO FULLY INDEPENDENT MONOSTABLE MULTIVIBRATORS. BOTH ARE RETRIGGERABLE. PINS DESIGNATED R AND R/C ARE FOR EXTERNAL TIMING RESISTOR AND CAPACITOR. SEE RADIO SHACK DATA BOOK FOR INFORMATION ABOUT R AND C.

BASIC ONE-SHOT



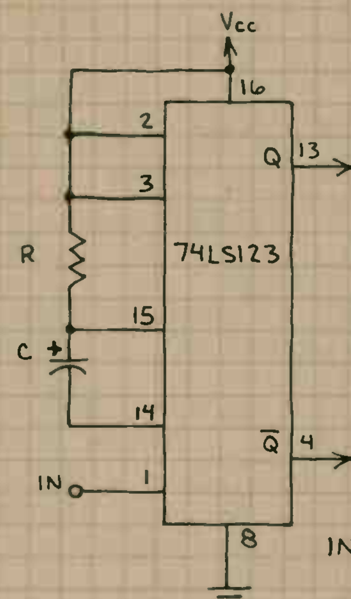
TWO WAYS TO TRIGGER:

1. KEEP INPUTS A AND B LOW; THEN MAKE B HIGH.
2. KEEP INPUTS A AND B HIGH; THEN MAKE A LOW.

TO CLEAR:

MAKE PIN 3 LOW. THIS ALSO INHIBITS TRIGGERING.

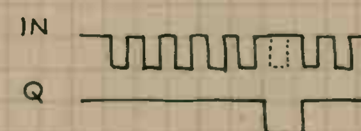
MISSING PULSE DETECTOR



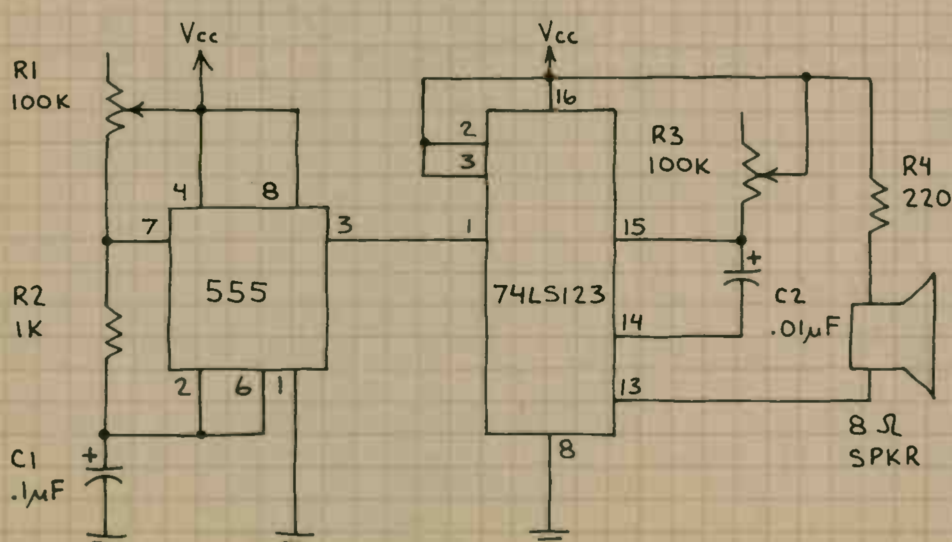
Q OUTPUT STAYS HIGH SO LONG AS INCOMING PULSES ARRIVE BEFORE ONE-SHOT TIMING PERIOD RUNS OUT.

ADJUST R AND C TO GIVE TIMING PERIOD ABOUT 1/3 LONGER THAN THE INTERVAL BETWEEN INCOMING PULSES.

OPERATION:



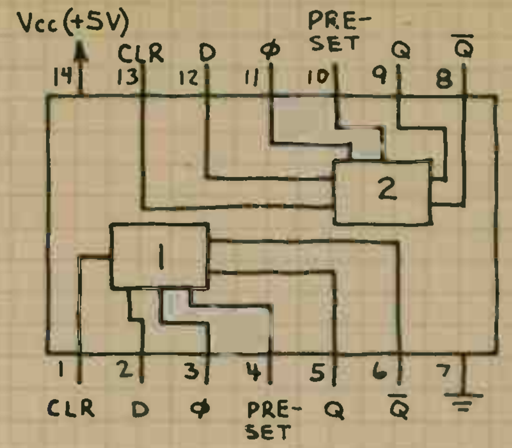
TONE STEPPER



THIS CIRCUIT STEPS ACROSS A RANGE OF TONES WHEN R1 AND/OR R3 ARE ADJUSTED. VERY UNUSUAL SOUND EFFECTS.

CHANGE C1 AND C2 FOR OTHER TONE RANGES. ALSO, TRY PHOTORESISTORS FOR R1 AND R3.

DUAL D FLIP-FLOP
7474/74LS74



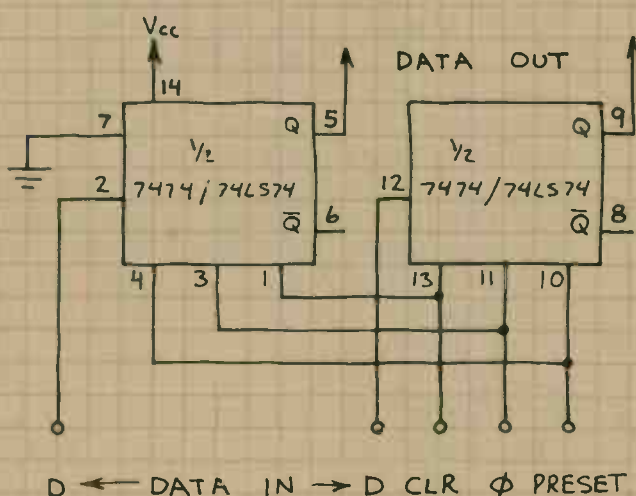
TWO D (DATA) FLIP-FLOPS IN A SINGLE PACKAGE. DATA AT D INPUT IS STORED AND MADE AVAILABLE AT Q OUTPUT WHEN CLOCK PULSE (φ) GOES HIGH. HERE'S THE TRUTH TABLE:

PRESET	CLEAR	CLOCK	D	Q	Q̄
L	H	X	X	H	L
H	L	X	X	L	H
H	H	↑	H	H	L
H	H	↑	L	L	H

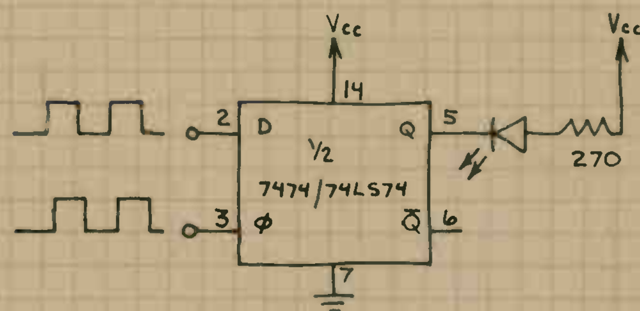
φ IS CLOCK INPUT.

↑ IS RISING EDGE OF CLOCK PULSE.

2-BIT STORAGE REGISTER

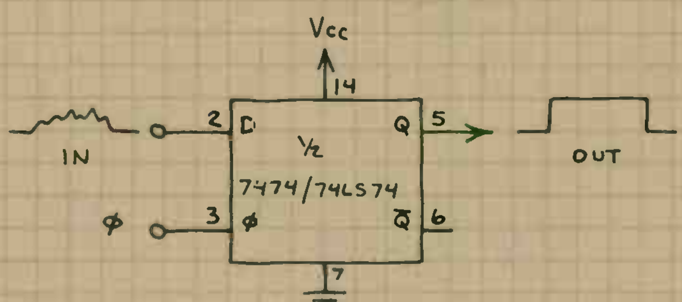


PHASE DETECTOR

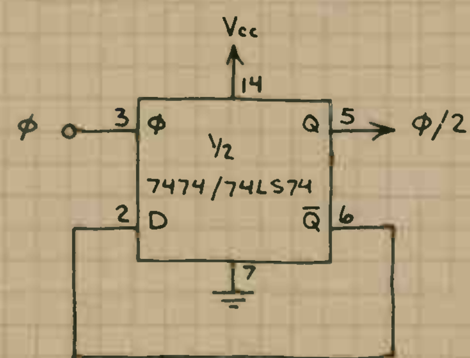


THE LED GLOWS WHEN INPUT FREQUENCIES F1 AND F2 ARE UNEQUAL OR OUT OF PHASE. F1 AND F2 SHOULD BE SQUARE WAVES.

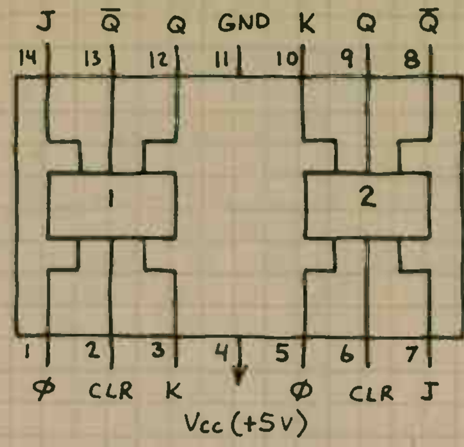
WAVE SHAPER



DIVIDE-BY-TWO COUNTER



DUAL J-K FLIP-FLOP 7473/74LS73

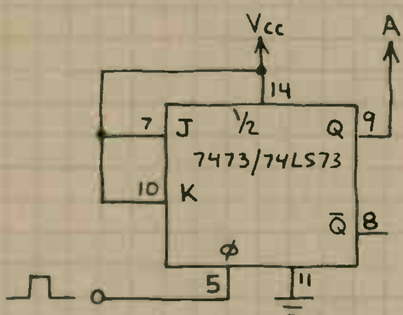


ϕ IS CLOCK INPUT.

TWO JK FLIP-FLOPS IN A SINGLE PACKAGE. NOTE THE CLEAR INPUTS. THESE FLIP-FLOPS WILL TOGGLE (SWITCH OUTPUT STATES) IN RESPONSE TO INCOMING CLOCK PULSES WHEN BOTH J ANK J INPUTS ARE HIGH. HERE'S THE TRUTH TABLE:

CLEAR	CLOCK	J	K	Q	$\bar{Q}$
L	X	X	X	L	H
H	⎍	H	L	H	L
H	⎍	L	H	L	H
H	⎍	H	H	TOGGLE	

DIVIDE-BY-TWO

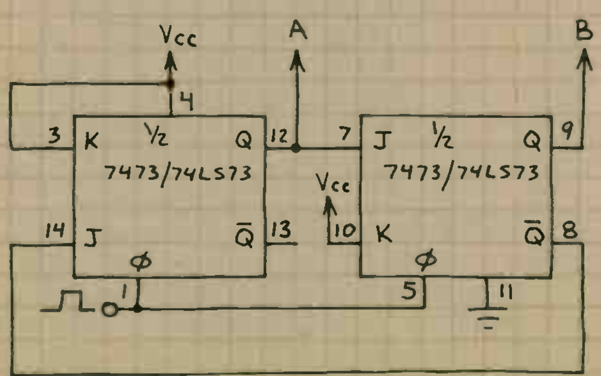


BINARY COUNTERS

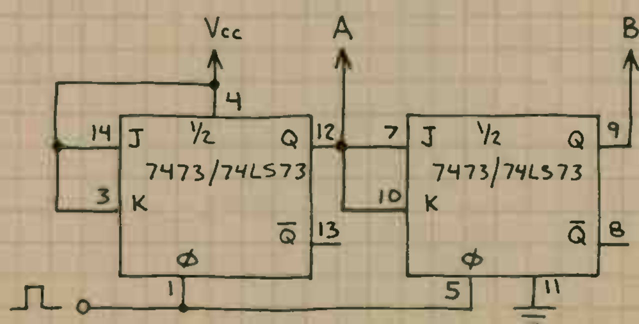
THE THREE CIRCUITS ON THIS PAGE ARE BINARY COUNTERS THAT COUNT UP TO THE MAXIMUM COUNT AND AUTOMATICALLY RECYCLE. CONNECT A DECODER TO OUTPUT OF DIVIDE-BY-THREE AND DIVIDE-BY-FOUR COUNTERS TO OBTAIN ONE-OF-THREE AND ONE-OF-FOUR OPERATION. THIS TRUTH TABLE SUMMARIZES OPERATION OF THESE COUNTERS:

DIVIDE-BY:	TWO	THREE		FOUR	
OUTPUTS:	A	B	A	B	A
	L	L	L	L	L
	H	L	H	L	H
		H	L	H	L
				H	H

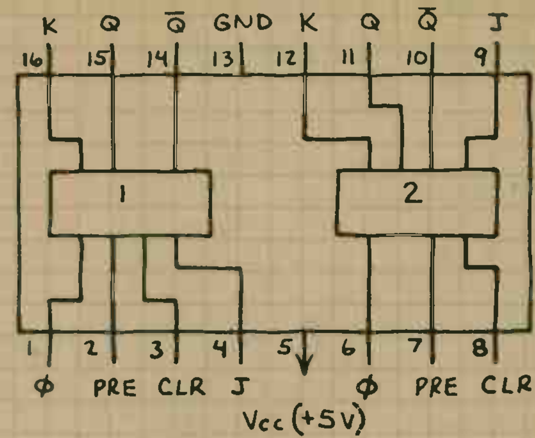
DIVIDE-BY-THREE



DIVIDE-BY-FOUR



DUAL J-K FLIP-FLOP
7476 / 74LS76



TWO JK FLIP-FLOPS IN A SINGLE PACKAGE. SIMILAR TO 7473/74LS73 BUT HAS BOTH PRESET AND CLEAR INPUTS. FLIP-FLOPS WILL TOGGLE (SWITCH OUTPUT STATES) IN RESPONSE TO INCOMING CLOCK PULSES WHEN BOTH J AND K INPUTS ARE HIGH. HERE'S THE TRUTH TABLE:

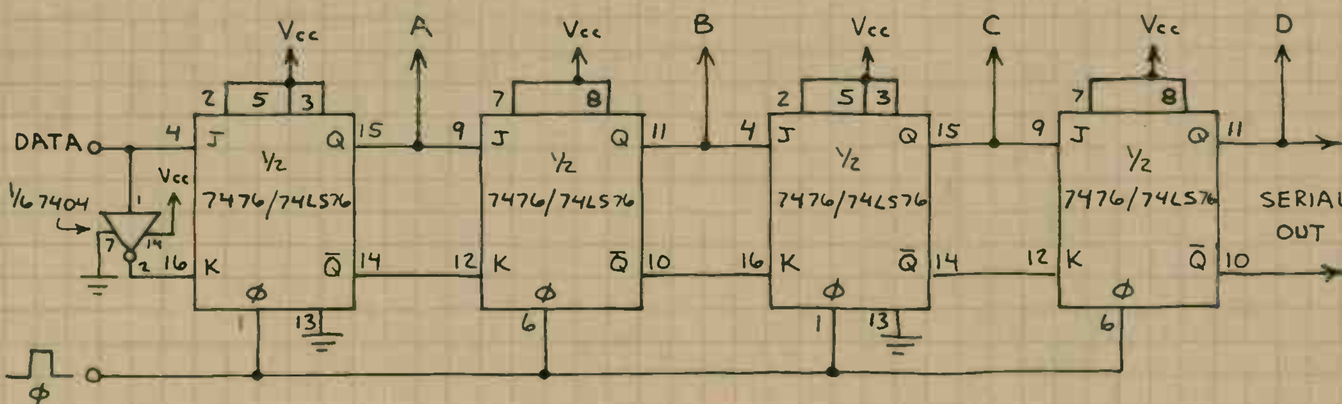
PRE = PRESET
CLR = CLEAR
ϕ = CLOCK (OR CLK)

TOGGLE = FLIP-FLOP SWITCHES OUTPUT STATES IN RESPONSE TO CLOCK PULSES.

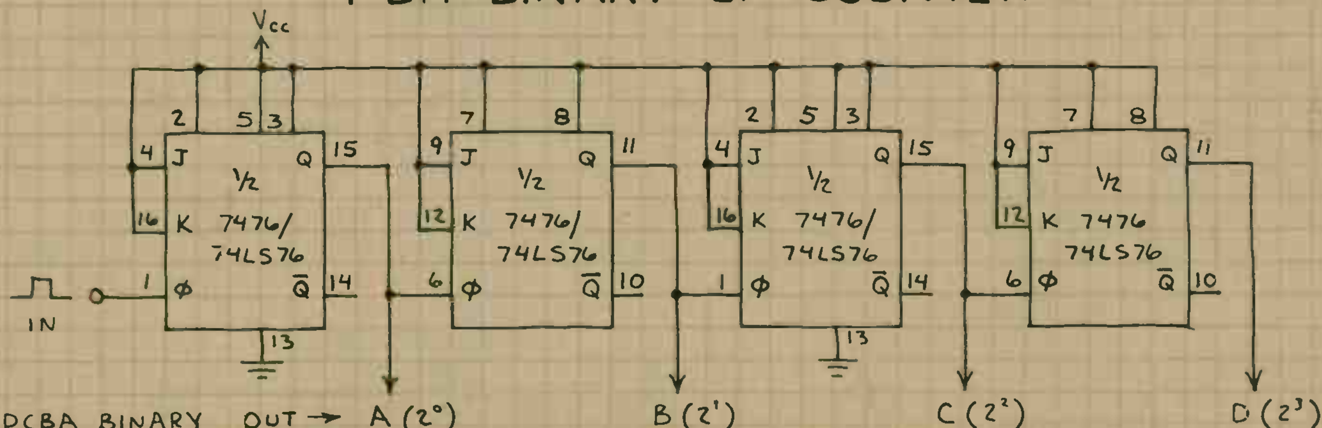
PRE	CLR	CLK	J	K	Q	$\bar{Q}$
L	H	X	X	X	H	L
H	L	X	X	X	L	H
H	H	⎍	H	L	H	L
H	H	⎍	L	H	L	H
H	H	⎍	H	H	TOGGLE	

4-BIT SERIAL SHIFT REGISTER

PARALLEL OUT (ABCD)

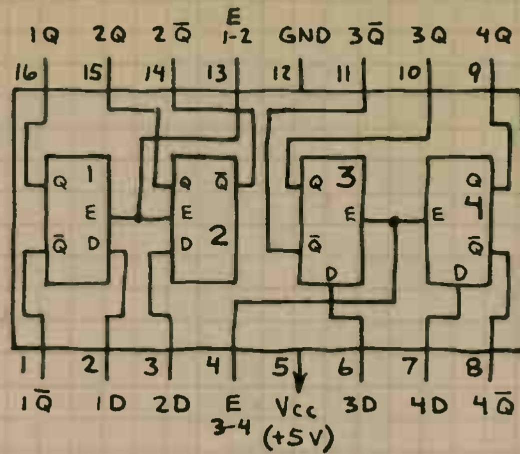


4-BIT BINARY UP COUNTER



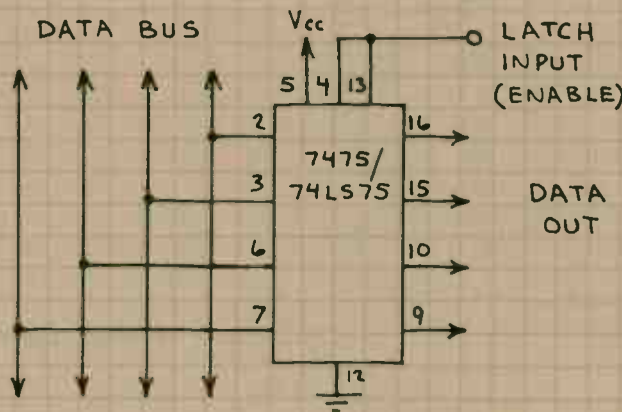
QUAD LATCH
7475/74LS75

A 4-BIT BISTABLE LATCH. PRIMARILY USED TO STORE THE COUNT IN DECIMAL COUNTING UNITS. NOTE THAT BOTH Q AND $\bar{Q}$ OUTPUTS ARE PROVIDED. ALSO NOTE THE E (ENABLE) INPUTS. WHEN E IS HIGH, Q FOLLOWS D.

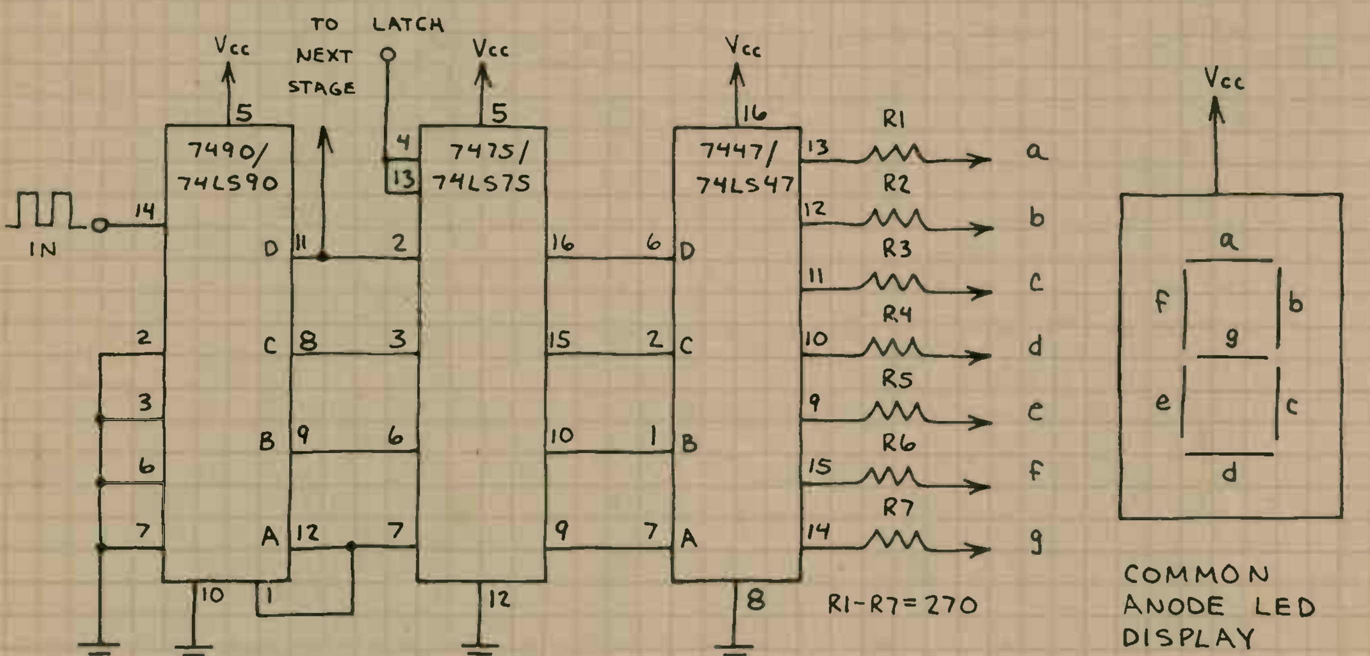


4-BIT DATA LATCH

DATA ON BUS APPEARS AT OUTPUTS WHEN LATCH INPUT IS HIGH. DATA ON BUS WHEN LATCH INPUT GOES LOW IS STORED UNTIL LATCH INPUT GOES HIGH. (LATCH INPUT CONTROLS BOTH ENABLE INPUTS.) TWO QUAD LATCHES CAN BE USED AS AN 8-BIT DATA LATCH.



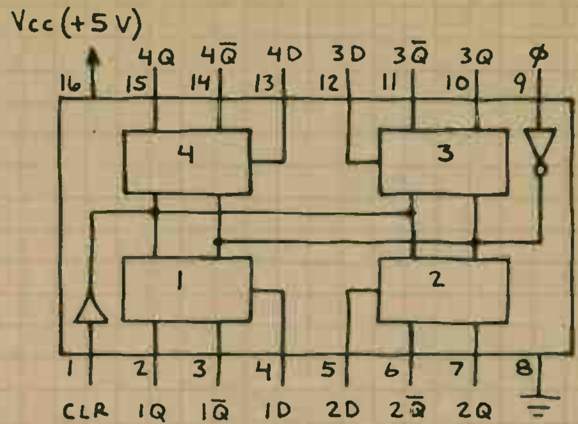
DECIMAL COUNTING UNIT



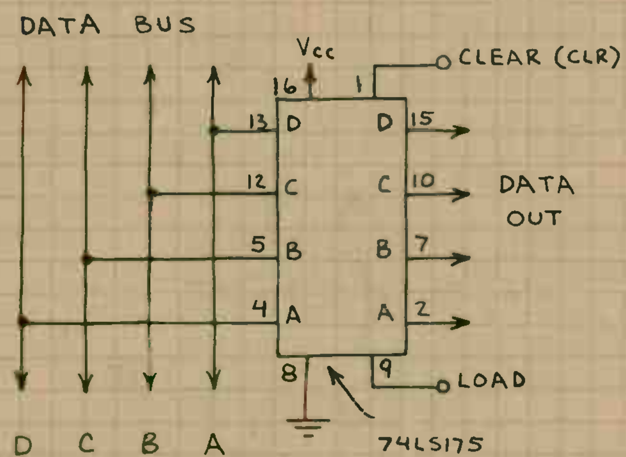
COMMON ANODE LED DISPLAY

EXPANDABLE DECADE COUNTER. FOR TWO DIGIT COUNT, CONNECT PIN 11 OF 7490/74LS90 OF FIRST UNIT TO INPUT OF SECOND UNIT. A LOW AT THE LATCH INPUT FREEZES THE DATA BEING DISPLAYED.

QUAD D FLIP-FLOP
74LS175



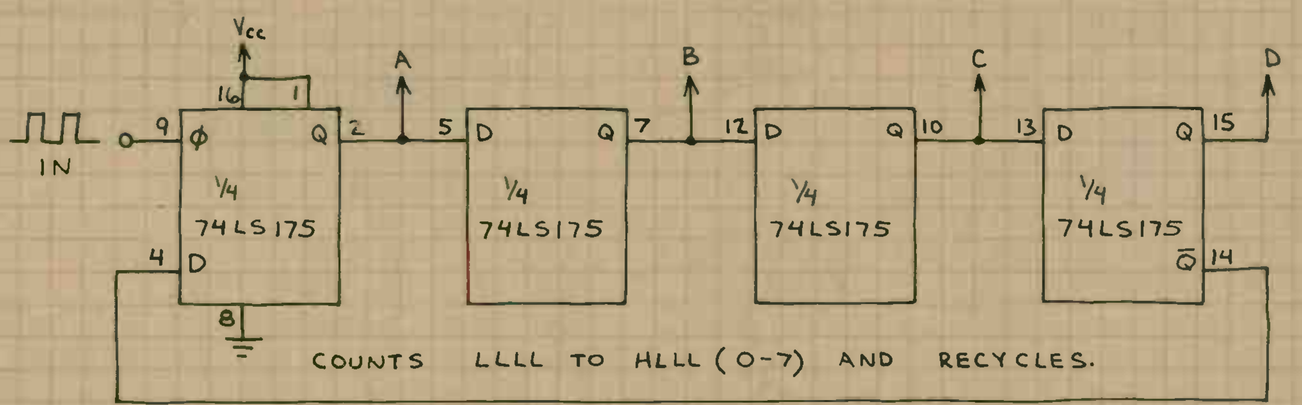
HANDY PACKAGE OF FOUR D-TYPE FLIP-FLOPS. DATA AT D-INPUTS IS LOADED WHEN CLOCK GOES HIGH. MAKING CLEAR INPUT LOW MAKES ALL Q OUTPUTS LOW AND Q̄ OUTPUTS HIGH.



4-BIT DATA REGISTER

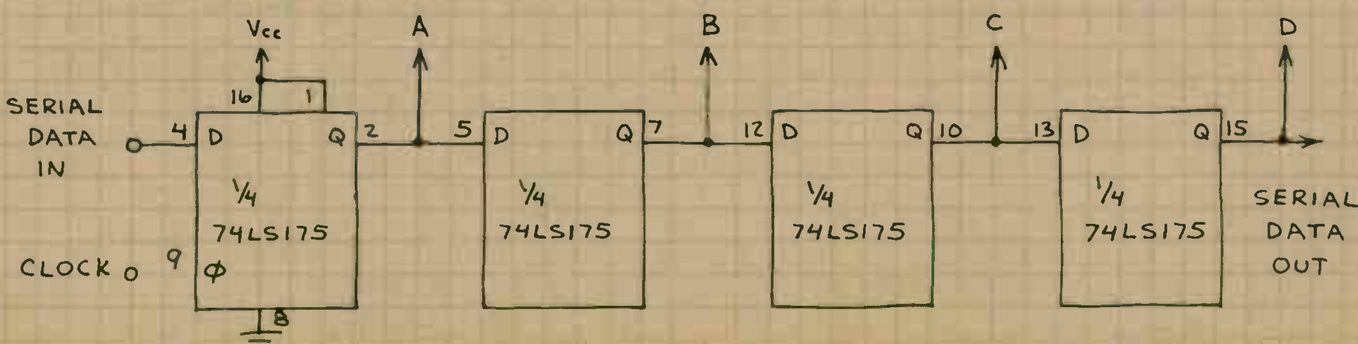
DATA ON BUS IS LOADED INTO 74LS175 WHEN LOAD INPUT GOES HIGH. DATA IS THEN STORED AND MADE AVAILABLE AT OUTPUTS UNTIL NEW LOAD PULSE ARRIVES.

MODULO-8 COUNTER



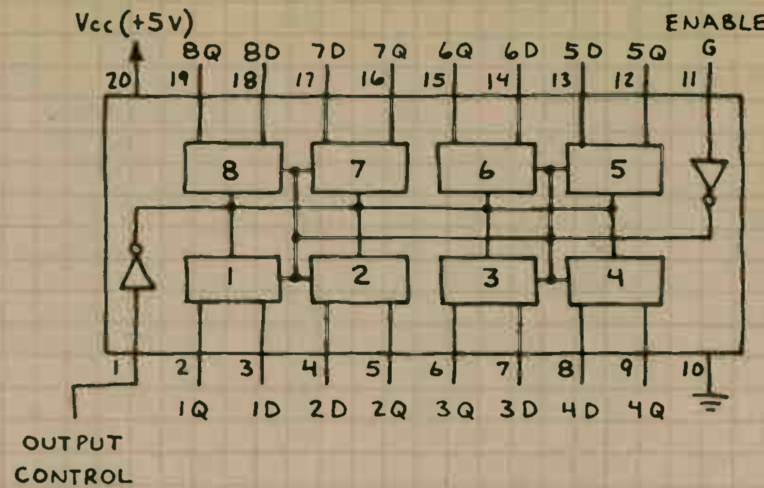
COUNTS LLLL TO HLLL (0-7) AND RECYCLES.

SERIAL IN/OUT, PARALLEL OUT SHIFT REGISTER

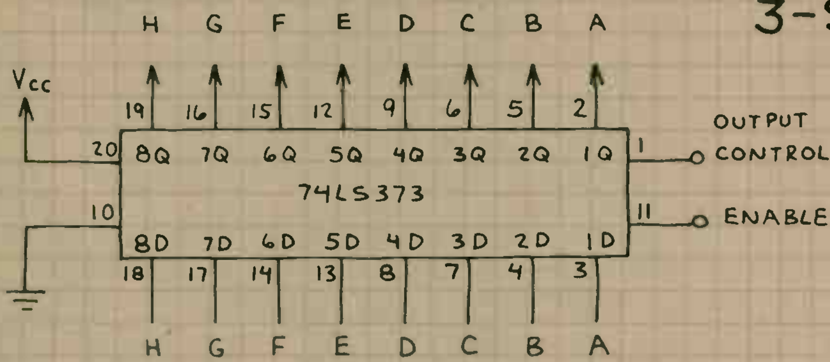


OCTAL D-TYPE LATCH 74LS373

EIGHT "TRANSPARENT" D-TYPE LATCHES. OUTPUT FOLLOWS INPUT WHEN ENABLE IS HIGH. THE DATA AT THE INPUTS IS LOADED WHEN THE ENABLE INPUT IS LOW. THIS CHIP HAS 3-STATE OUTPUTS WHICH ARE CONTROLLED BY PIN 1. SEE TRUTH TABLE BELOW.



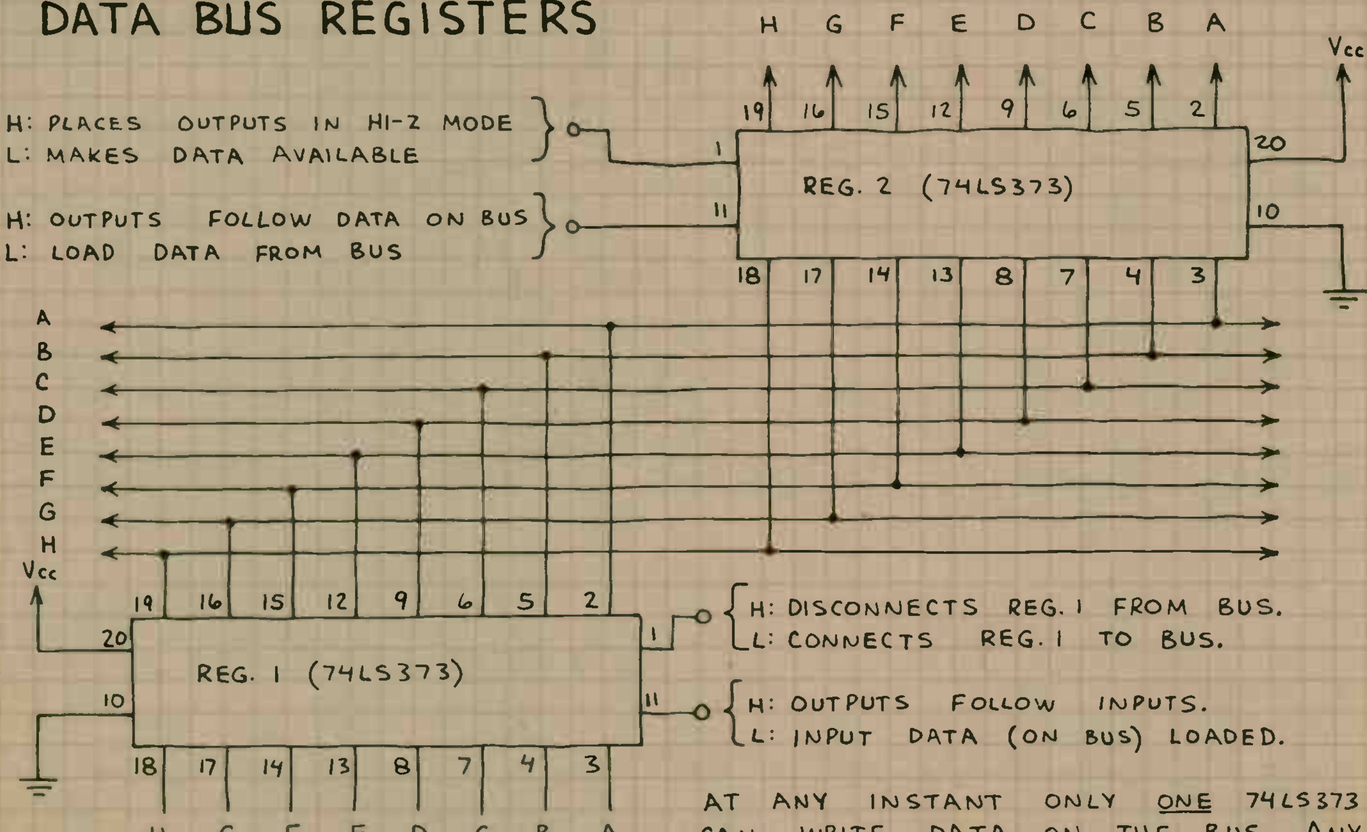
3-STATE REGISTER



THIS IS A GENERAL PURPOSE 8-BIT STORAGE REGISTER. HERE'S THE TRUTH TABLE:

OUTPUT CONTROL	ENABLE	D	Q
L	H	H	H
L	H	L	L
L	L	X	Q
H	X	X	HI-Z

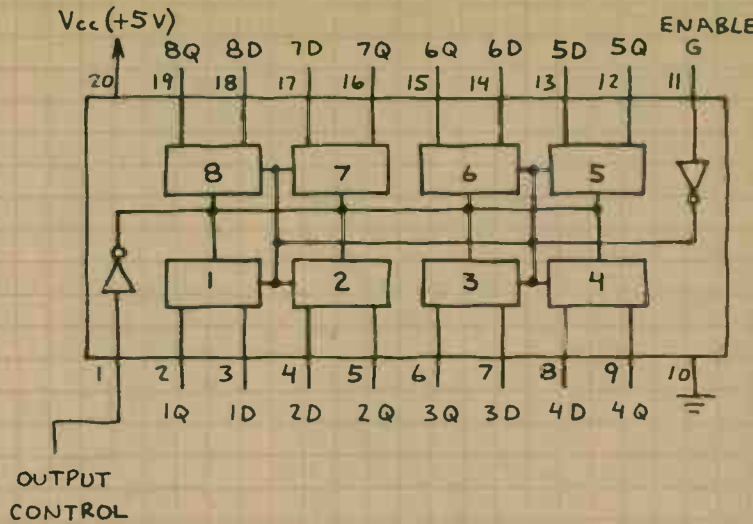
DATA BUS REGISTERS



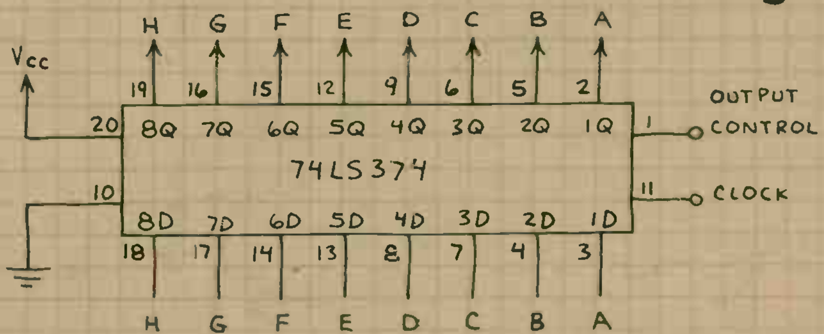
AT ANY INSTANT ONLY ONE 74LS373 CAN WRITE DATA ON THE BUS. ANY NUMBER CAN READ DATA FROM BUS.

OCTAL D FLIP-FLOP
74LS374

EIGHT D-TYPE EDGE TRIGGERED FLIP-FLOPS. UNLIKE 74LS373, OUTPUTS DO <u>NOT</u> FOLLOW INPUTS. INSTEAD, A RISING CLOCK PULSE AT PIN 11 LOADS DATA APPEARING AT INPUTS. THIS CHIP HAS 3-STATE OUTPUTS WHICH ARE CONTROLLED BY PIN 1.



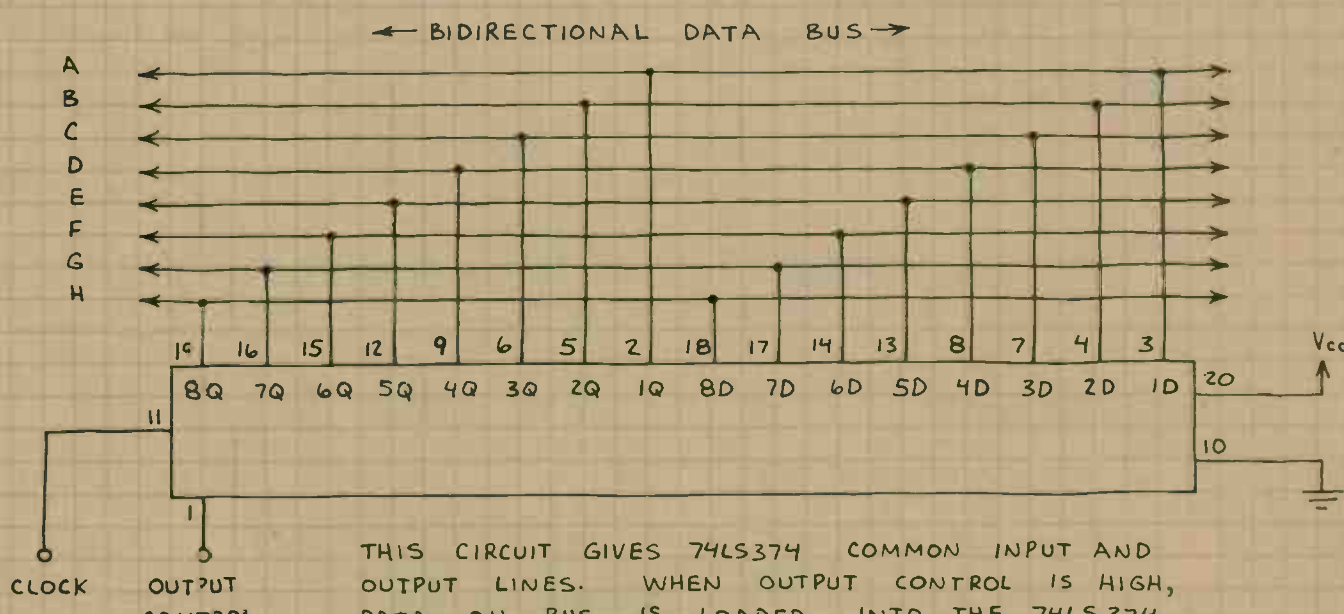
CLOCKED 3-STATE REGISTER



GENERAL PURPOSE CLOCKED REGISTER. HERE'S THE TRUTH TABLE:

OUTPUT CONTROL	CLOCK	D	Q
L	⎍	H	H
L	⎍	L	L
L	H	X	Q
H	X	X	HI-Z

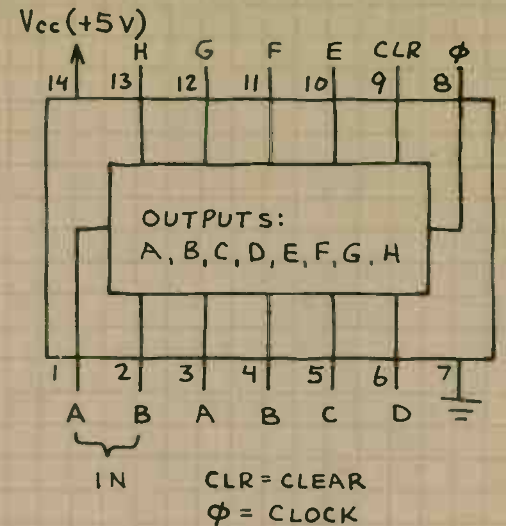
COMMON INPUT/OUTPUT BUS REGISTER



THIS CIRCUIT GIVES 74LS374 COMMON INPUT AND OUTPUT LINES. WHEN OUTPUT CONTROL IS HIGH, DATA ON BUS IS LOADED INTO THE 74LS374 ON THE RISING EDGE (⎍) OF THE CLOCK PULSE. WHEN OUTPUT CONTROL IS LOW, DATA IN THE 74LS374 IS WRITTEN ONTO THE BUS.

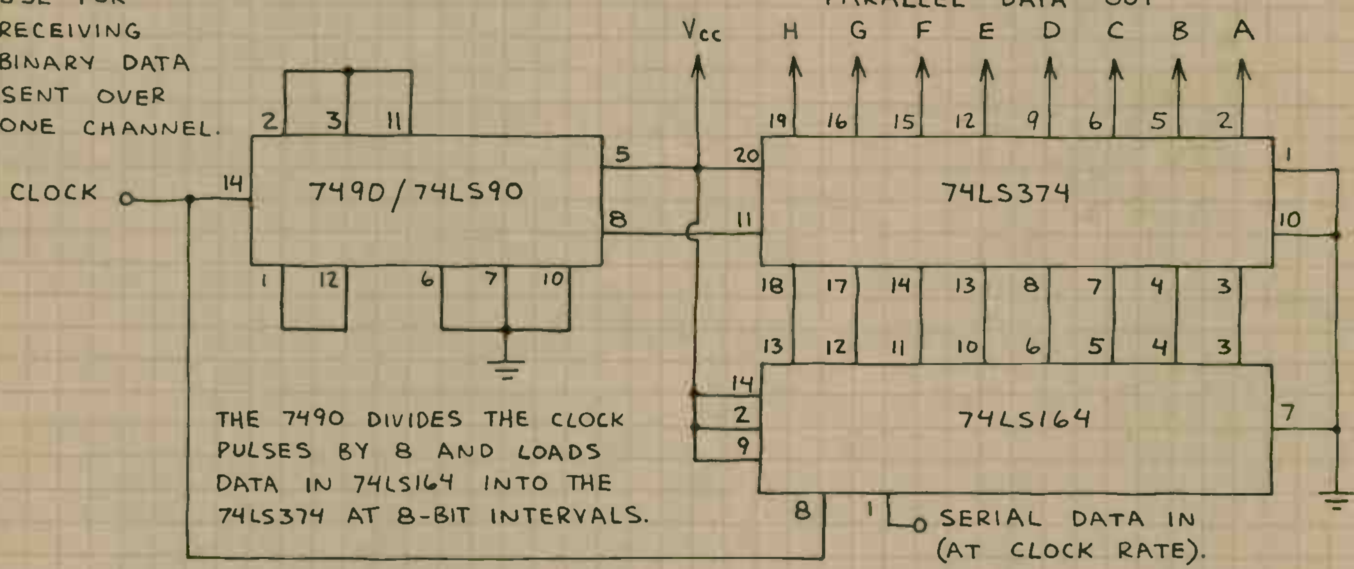
8-BIT SHIFT REGISTER
74LS164

DATA AT ONE OF THE TWO SERIAL INPUTS IS ADVANCED ONE BIT FOR EACH CLOCK PULSE. DATA CAN BE EXTRACTED FROM THE 8 PARALLEL OUTPUTS OR IN SERIAL FORM AT ANY SINGLE OUTPUT. ENTER DATA AT EITHER INPUT. THE UNUSED INPUT MUST BE HELD HIGH OR CLOCKING WILL BE INHIBITED. MAKING PIN 9 LOW CLEARS THE REGISTER TO LLLL.

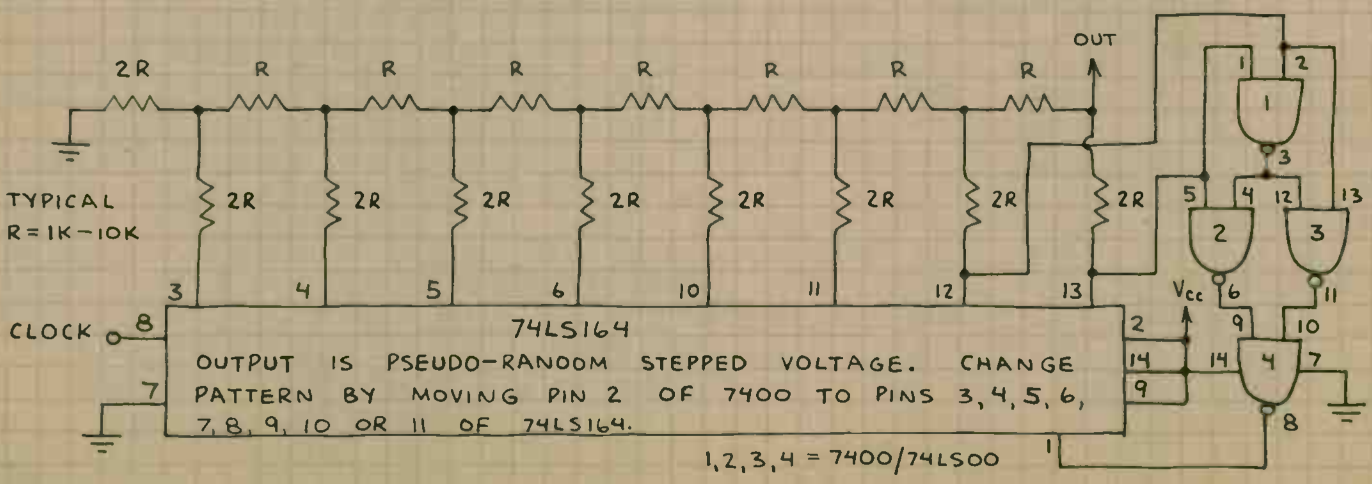


8-BIT SERIAL-TO-PARALLEL DATA CONVERTER

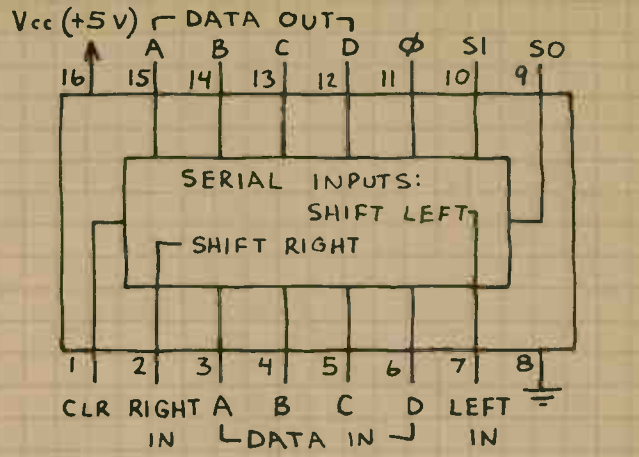
USE FOR RECEIVING BINARY DATA SENT OVER ONE CHANNEL.



PSEUDO-RANDOM VOLTAGE GENERATOR

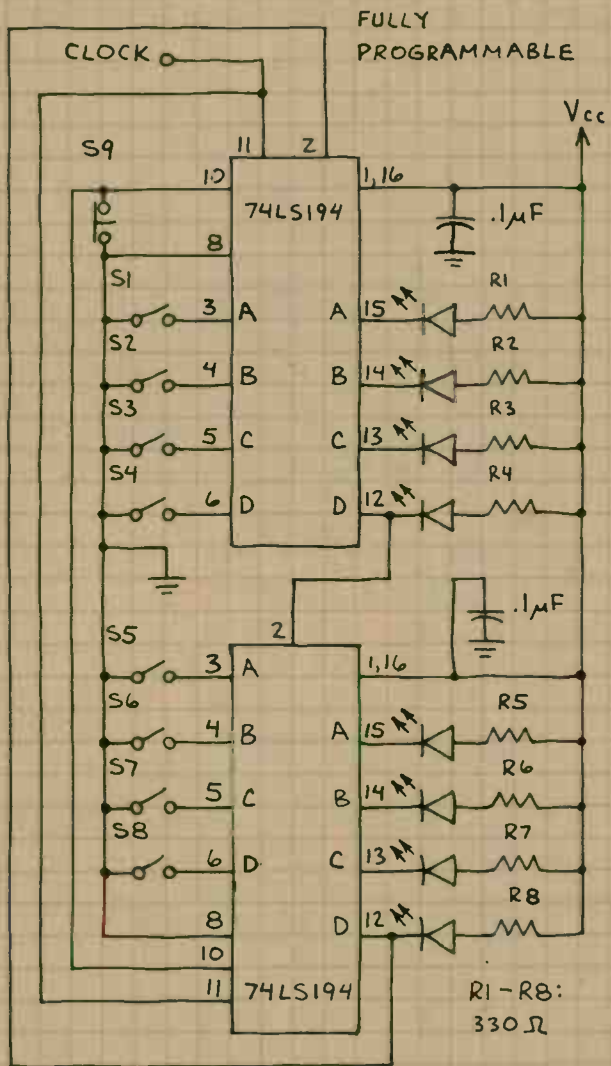


4-BIT SHIFT REGISTER 74LS194



BIDIRECTIONAL UNIVERSAL SHIFT REGISTER. SHIFTS RIGHT WHEN SO IS HIGH AND SI IS LOW. SHIFTS LEFT WHEN SO IS LOW AND SI IS HIGH. SHIFTS ONE POSITION PER CLOCK PULSE. LOADS DATA AT INPUTS WHEN SO AND SI ARE HIGH. IMPORTANT: BYPASS POWER SUPPLY PINS WITH 0.1 μF CAPACITOR!

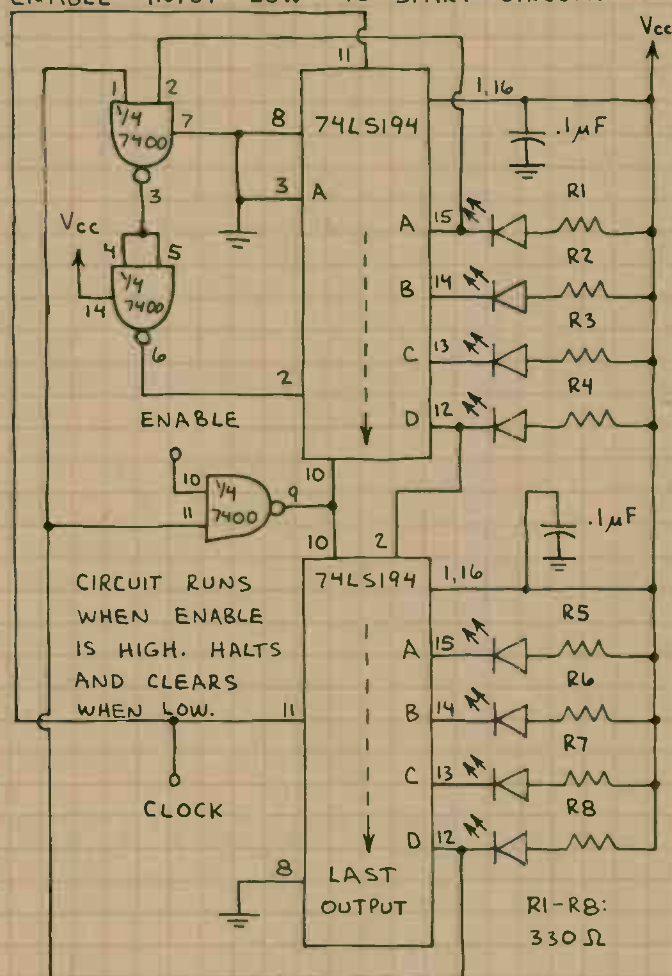
SEQUENCE GENERATOR



LOAD ANY DESIRED BIT PATTERN INTO S1-S8 (OPEN = HIGH AND CLOSED = LOW). PRESS S9 (NORMALLY CLOSED) TO LOAD. DATA WILL MOVE RIGHT ONE OUTPUT PER CLOCK PULSE. LEDs ARE OPTIONAL.

BARGRAPH GENERATOR

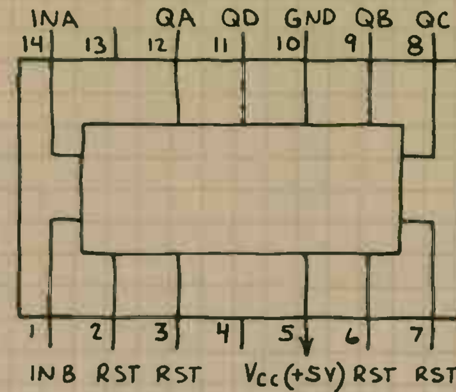
WHEN POWER IS FIRST APPLIED, MAKE ENABLE INPUT LOW TO START CIRCUIT.



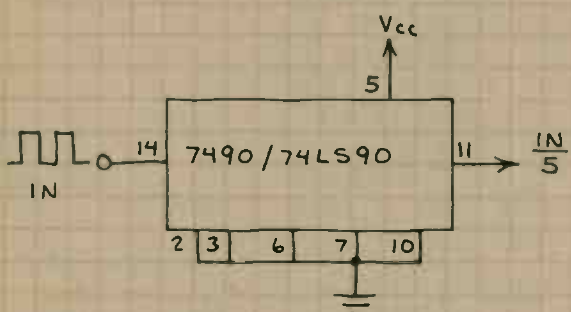
OUTPUTS GO LOW AND STAY LOW ONE AT A TIME FROM LEFT TO RIGHT (A→D) IN SEQUENCE WITH CLOCK. WHEN FINAL OUTPUT GOES LOW, ALL OUTPUTS BUT THE FIRST GO HIGH AND RECYCLE.

BCD (DECADE) COUNTER
7490/74LS90

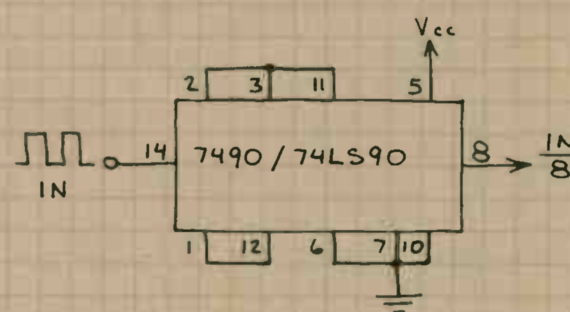
ONE OF THE MOST POPULAR DECADE COUNTERS. EASILY USED FOR DIVIDE-BY-N COUNTERS. LESS EXPENSIVE THAN MORE SOPHISTICATED COUNTERS. RST INDICATES RESET PINS. THIS CHIP IS USUALLY USED IN DECIMAL COUNTING UNITS, BUT CIRCUITS ON THIS PAGE SHOW MANY OTHER POSSIBILITIES.



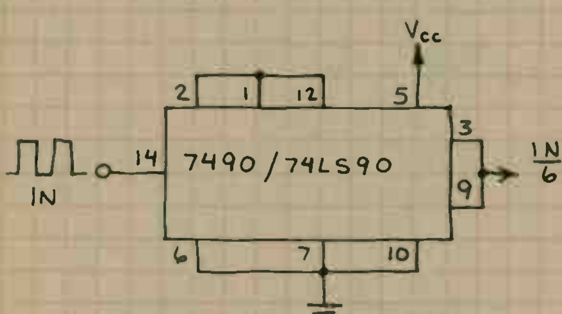
DIVIDE-BY-5 COUNTER



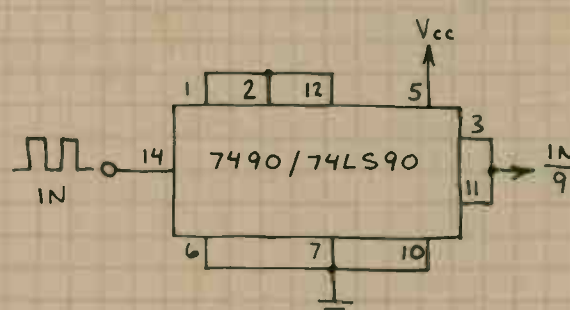
DIVIDE-BY-8 COUNTER



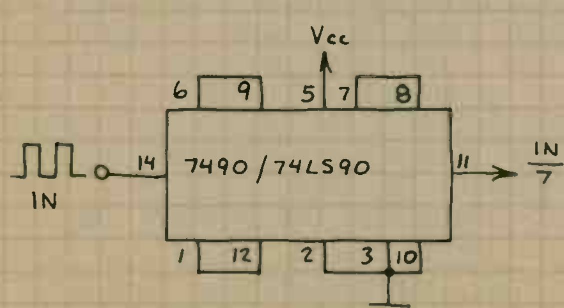
DIVIDE-BY-6 COUNTER



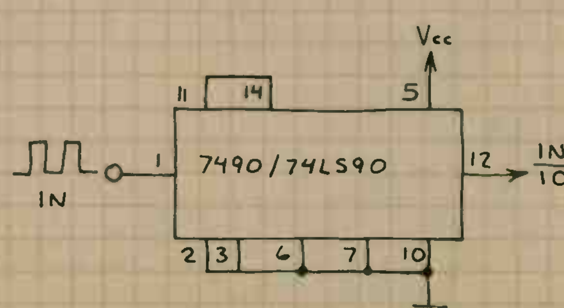
DIVIDE-BY-9 COUNTER



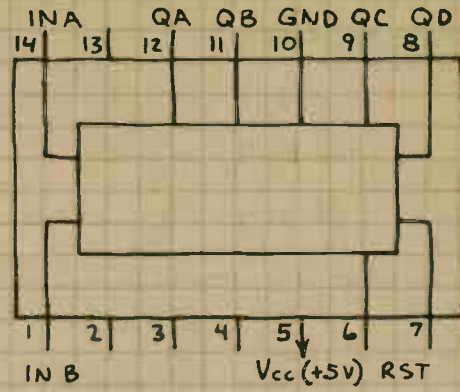
DIVIDE-BY-7 COUNTER



DIVIDE-BY-10 COUNTER

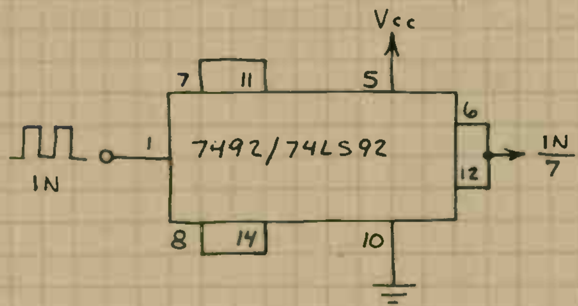


DIVIDE-BY-12 BINARY COUNTER
7492/74LS92

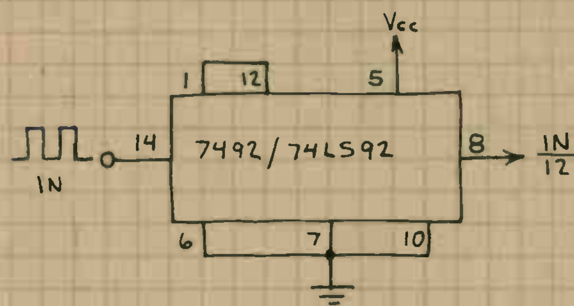


OFTEN USED TO DIVIDE CONDITIONED 60 HZ PULSES FROM AC POWER LINE INTO 10 HZ PULSES. OTHER DIVIDER APPLICATIONS ALSO. RST INDICATES RESET PINS.

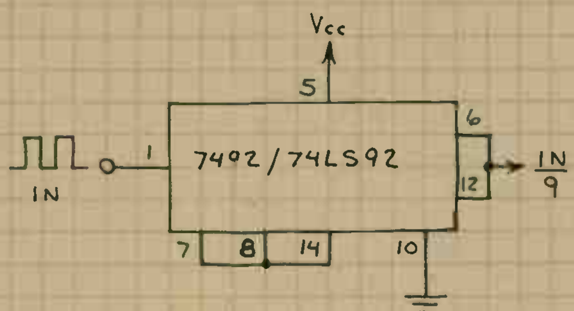
DIVIDE-BY-7 COUNTER



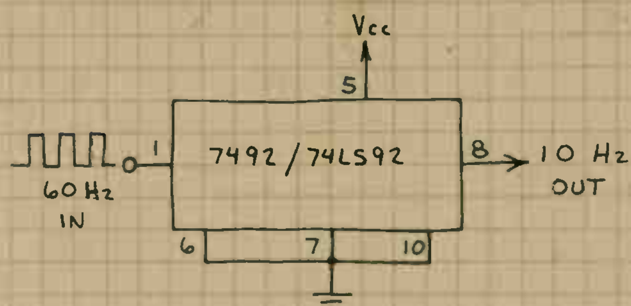
DIVIDE-BY-12 COUNTER



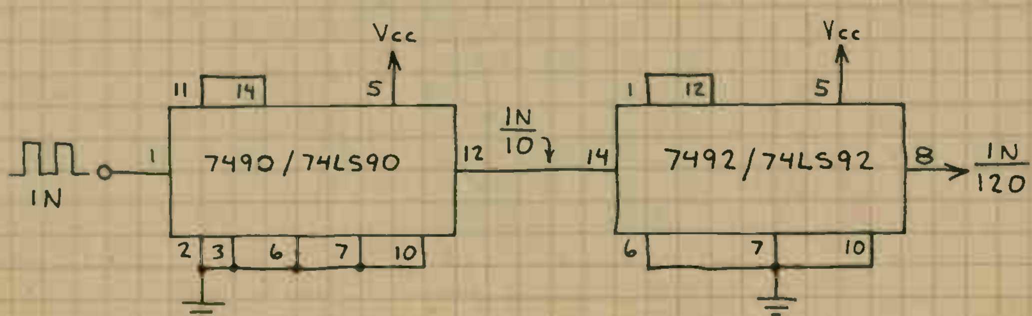
DIVIDE-BY-9 COUNTER



10-HZ PULSE SOURCE

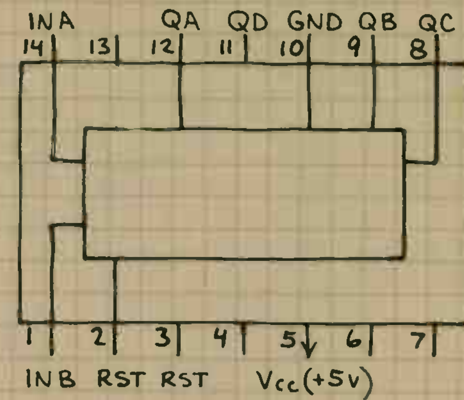


DIVIDE-BY-120 COUNTER



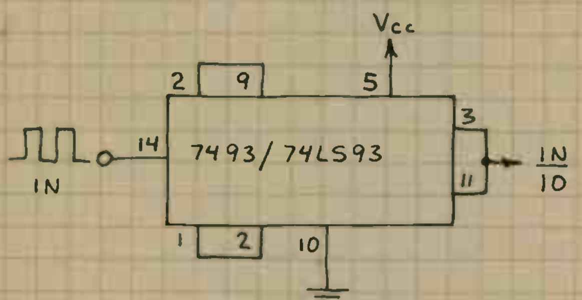
THIS METHOD OF CASCADING COUNTERS CAN BE USED TO CREATE ANY DIVIDE-BY-N COUNTER.

4-BIT (BINARY) COUNTER
7493 / 74LS93

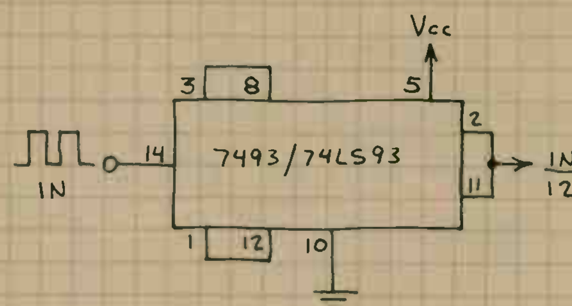


EASY TO USE 4-BIT BINARY COUNTER. LESS EXPENSIVE THAN MORE SOPHISTICATED COUNTERS. RST INDICATES RESET PINS. NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS.

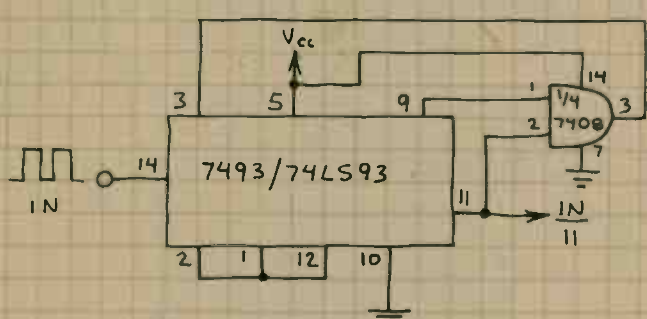
DIVIDE-BY-10 COUNTER



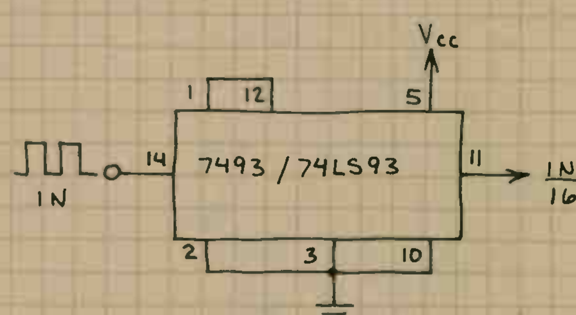
DIVIDE-BY-12 COUNTER



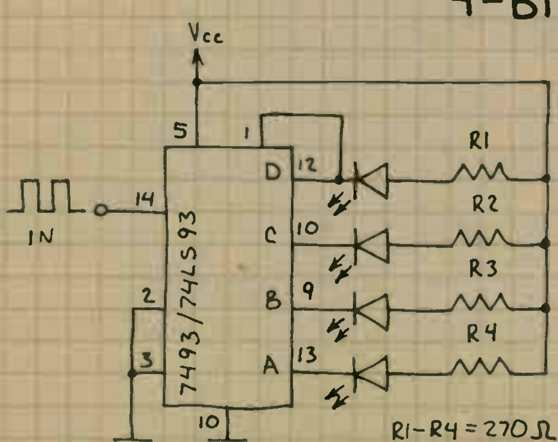
DIVIDE-BY-11 COUNTER



DIVIDE-BY-16 COUNTER



4-BIT BINARY COUNTER

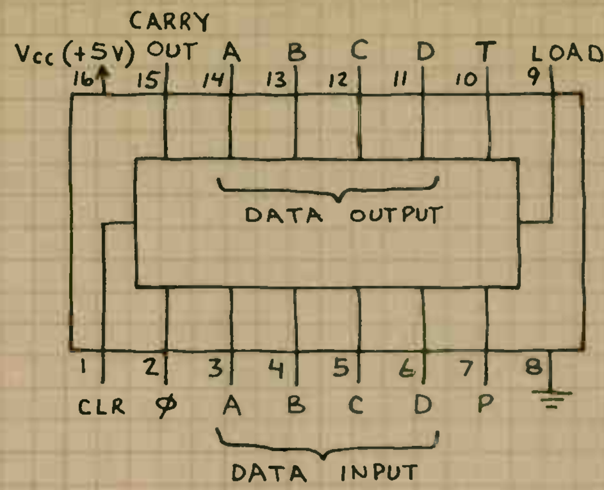


COUNTS FROM 0-15 IN BINARY AND RECYCLES. GLOWING LED = L (0); OFF LED = H (1). 555 TIMER IC MAKES GOOD INPUT CLOCK.

TRUTH TABLE

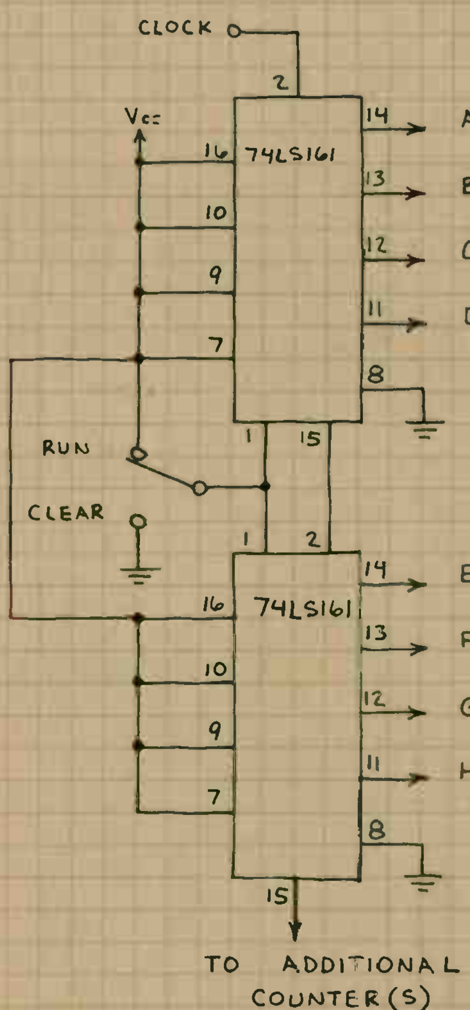
D	C	B	A	D	C	B	A
L	L	L	L	H	L	L	L
L	L	L	H	H	L	L	H
L	L	H	L	H	L	H	L
L	L	H	H	H	L	H	H
L	H	L	L	H	H	L	L
L	H	L	H	H	H	L	H
L	H	H	L	H	H	H	L
L	H	H	H	H	H	H	H

4-BIT UP COUNTER
74LS161



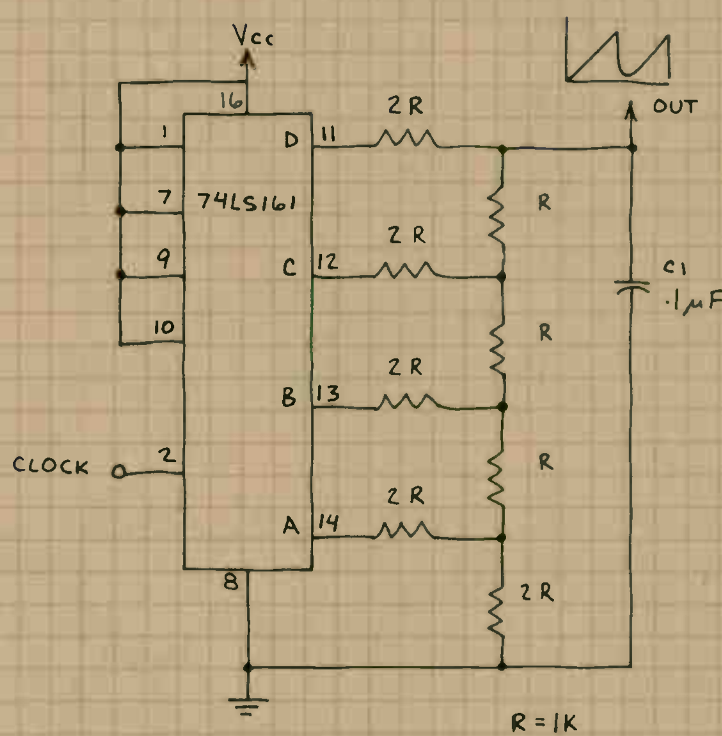
GENERAL PURPOSE BINARY COUNTER WITH PROGRAMMABLE INPUTS. COUNTER ACCEPTS DATA AT INPUTS WHEN LOAD INPUT GOES LOW. A LOW AT THE CLEAR INPUT RESETS THE COUNTER TO LLLL UPON THE NEXT CLOCK PULSE. P AND T ARE COUNT ENABLE INPUTS. BOTH P AND T MUST BE HIGH TO COUNT. THESE ENABLE INPUTS ARE NOT AVAILABLE WITH THE OTHERWISE MORE ADVANCED 74LS193.

8-BIT COUNTER



OUTPUT A IS LOWEST ORDER BIT.

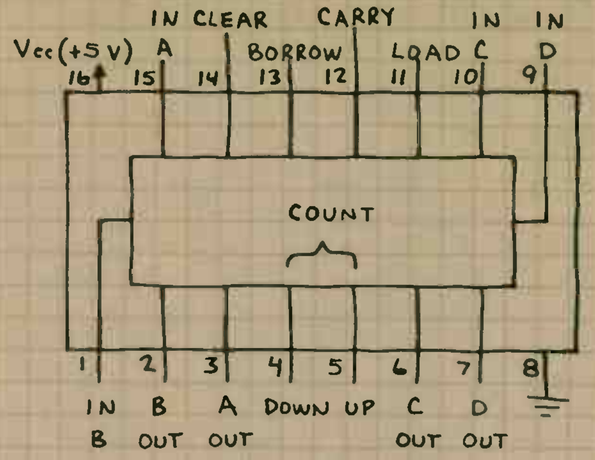
RAMP SYNTHESIZER



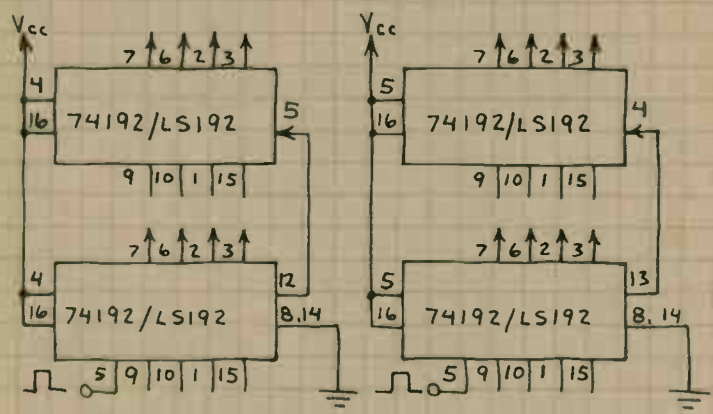
REMOVE C1 TO OBTAIN THIS STAIRCASE. FREQUENCY OF RAMP AND STAIRCASE IS 1/16 CLOCK FREQUENCY.

BCD UP-DOWN COUNTER
74192/74LS192

FULLY PROGRAMMABLE BCD COUNTER. OPERATION IS IDENTICAL TO 74193/74LS193 EXCEPT COUNT IS 10-STEP BCD (LLLL-HLLH) INSTEAD OF 16-STEP BINARY. MANY APPLICATIONS FOR 74192/74LS192 AND 74193/74LS193 ARE INTERCHANGEABLE.

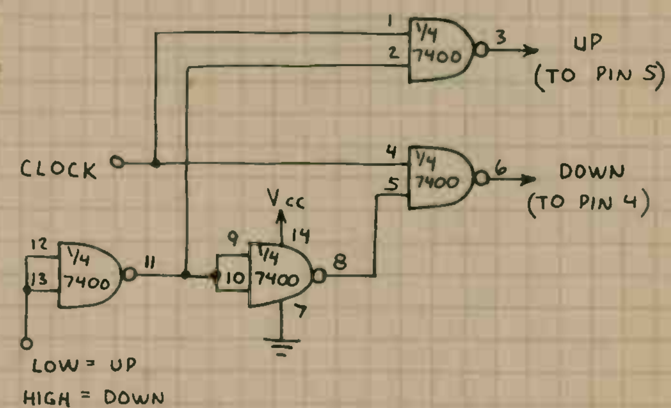


CASCADED COUNTERS

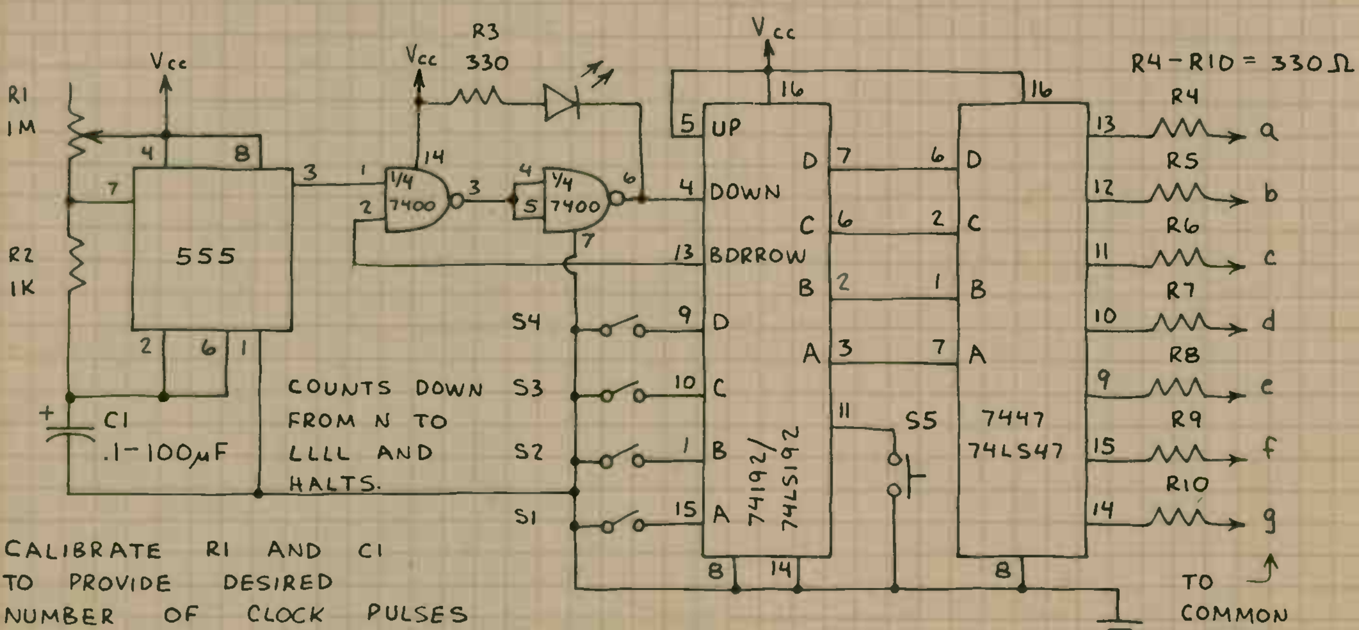


UP (0-99) DOWN (99-0)

SINGLE UP-DOWN INPUT



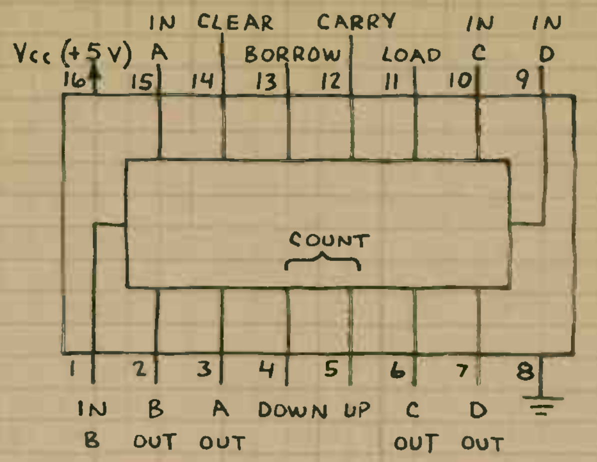
PROGRAMMABLE COUNT DOWN TIMER



CALIBRATE R1 AND C1 TO PROVIDE DESIRED NUMBER OF CLOCK PULSES PER MINUTE. SET DESIRED N INTO S1-S4 (CLOSED SWITCH = LOW AND OPEN SWITCH = HIGH). PRESS S5 TO LOAD N AND START (OR RESET) COUNT. LED GLOWS AT HALT.

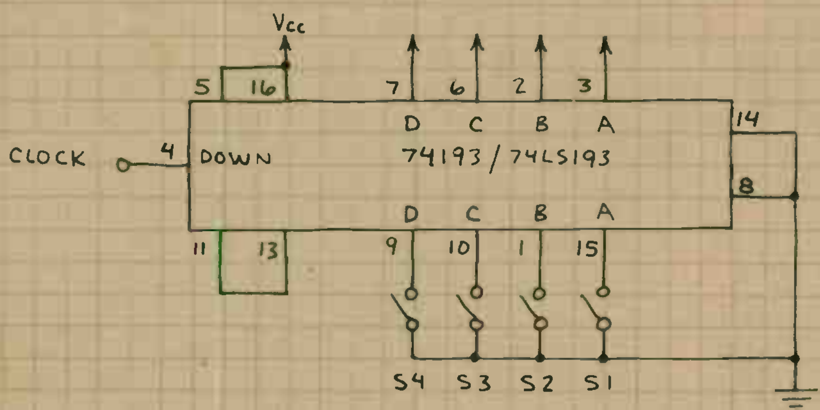
TO COMMON ANODE LED DISPLAY.

4-BIT UP-DOWN COUNTER
74193/74LS193



VERY VERSATILE 4-BIT COUNTER WITH UP-DOWN CAPABILITY. ANY 4-BIT NUMBER AT THE DCBA INPUTS IS LOADED INTO THE COUNTER WHEN THE LOAD INPUT (PIN 11) IS MADE LOW. THE COUNTER IS CLEARED TO LLLL WHEN THE CLEAR INPUT (PIN 14) IS MADE HIGH. THE BORROW AND CARRY OUTPUTS INDICATE UNDERFLOW OR OVERFLOW BY GOING LOW.

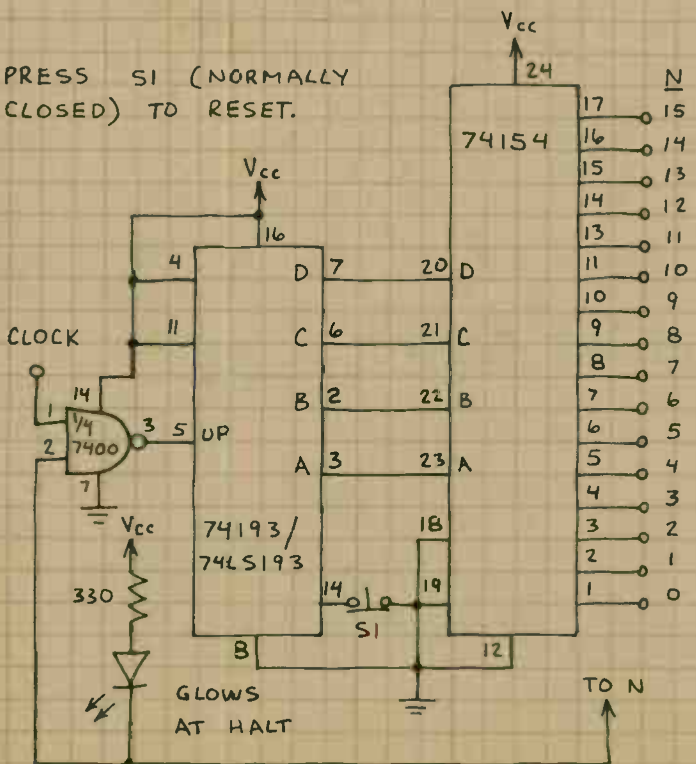
COUNT DOWN FROM N AND RECYCLE



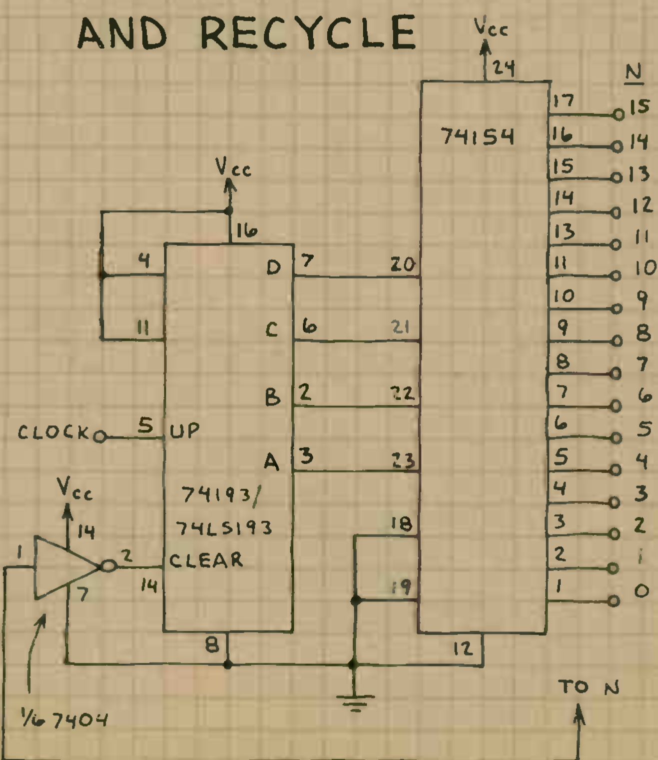
SET DESIRED N INTO S1-S4 (CLOSED SWITH = LOW AND OPEN SWITCH = HIGH). WHEN COUNT REACHES LLLL AND THEN UNDERFLOWS, THE BORROW PULSE LOADS N AND THE COUNT RECYCLES.

COUNT UP TO N AND HALT

PRESS S1 (NORMALLY CLOSED) TO RESET.

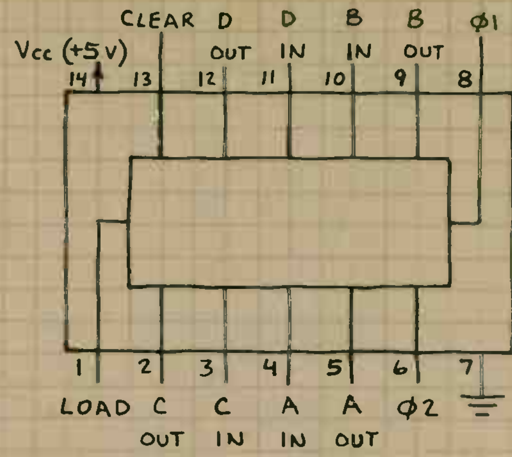


COUNT UP TO N AND RECYCLE

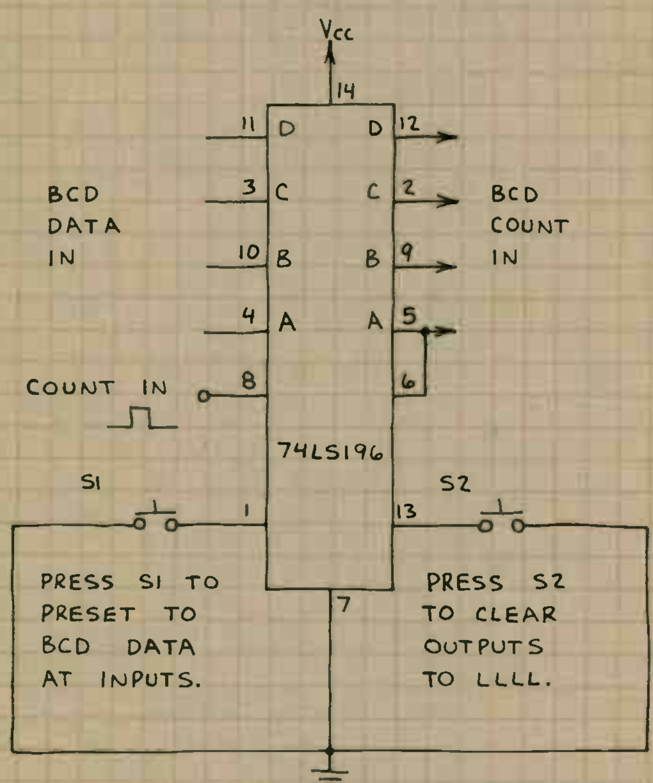


BCD (DECADE) COUNTER
74LS196

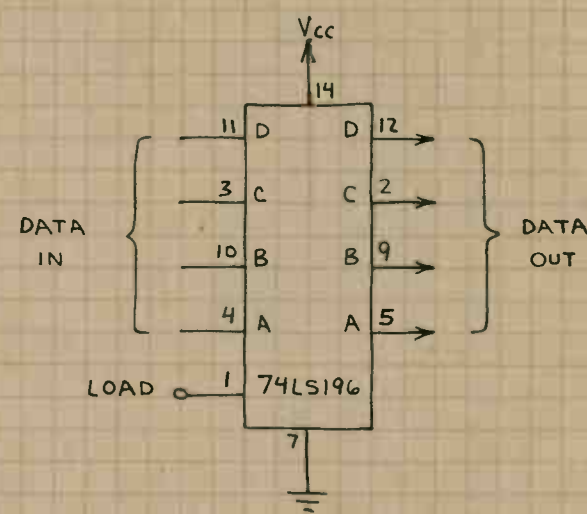
MORE SOPHISTICATED VERSION OF THE POPULAR 7490/74LS90 BCD COUNTER. INCLUDES 4-PRESET INPUTS WHICH PERMIT ANY BCD NUMBER TO BE LOADED WHEN PIN 1 IS MADE LOW. THE COUNTER IS CLEARED TO LLLL WHEN PIN 13 IS MADE LOW. ϕ INDICATES CLOCK INPUT.



DECADE COUNTER

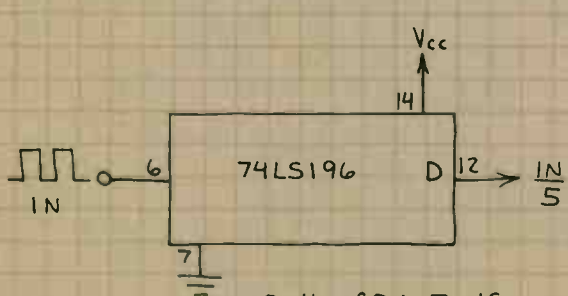


4-BIT LATCH



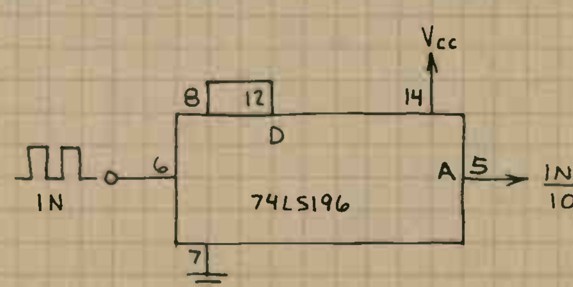
WHEN LOAD INPUT IS LOW, OUTPUTS FOLLOW INPUTS. NO CHANGE WHEN LOAD INPUT IS HIGH. NOTE THAT A PAIR OF 74LS196'S CAN BE USED IN A DECIMAL COUNTING UNIT (COUNTER PLUS REGISTER).

DIVIDE-BY-5 COUNTER



0-4 COUNT IS AVAILABLE AT DCBA OUTPUTS.

DIVIDE-BY-10 COUNTER



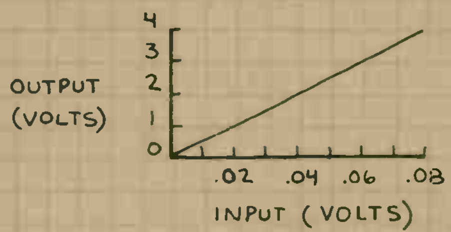
NOTES

NOTES

LINEAR INTEGRATED CIRCUITS

INTRODUCTION

THE OUTPUT OF A LINEAR IC IS PROPORTIONAL TO THE SIGNAL AT ITS INPUT. THE CLASSIC LINEAR IC IS THE OPERATIONAL AMPLIFIER. THIS GRAPH SHOWS THE LINEAR INPUT-OUTPUT RELATIONSHIP OF A TYPICAL OP-AMP CIRCUIT:



MANY NON-DIGITAL ICs — INCLUDING OP-AMPS — CAN BE USED IN BOTH LINEAR AND NON-LINEAR MODES. THEY ARE SOMETIMES DESCRIBED AS ANALOG ICs.

LINEAR ICs GENERALLY REQUIRE MORE EXTERNAL COMPONENTS THAN DIGITAL ICs. THIS INCREASES THEIR SUSCEPTABILITY TO EXTERNAL NOISE AND MAKES THEM A LITTLE TRICKIER TO USE. ON THE OTHER HAND, SOME LINEAR ICs CAN DO ESSENTIALLY THE SAME THING AS A NETWORK OF DIGITAL CHIPS.

HERE'S A BRIEF DESCRIPTION OF THE LINEAR CHIPS IN THIS SECTION:

VOLTAGE REGULATORS

PROVIDE A STEADY VOLTAGE, EITHER FIXED OR ADJUSTABLE, THAT IS UNAFFECTED BY CHANGES IN THE SUPPLY VOLTAGE AS LONG AS THE SUPPLY VOLTAGE IS ABOVE THE DESIRED OUTPUT VOLTAGE.

OPERATIONAL AMPLIFIERS

THE IDEAL AMPLIFIER... ALMOST. HIGH INPUT IMPEDANCE AND GAIN. LOW OUTPUT IMPEDANCE. GAIN IS EASILY CONTROLLED WITH A SINGLE FEEDBACK RESISTOR. FET INPUT OP-AMPS (BIFETS) HAVE A VERY HIGH FREQUENCY RESPONSE. IT'S USUALLY OK TO SUBSTITUTE OP-AMPS IF BOTH ARE NORMALLY POWERED BY A DUAL POLARITY SUPPLY (1/2 LF353 FOR 741C, ETC)... BUT PERFORMANCE WILL IMPROVE OR DECREASE ACCORDING TO THE NEW OP-AMP'S SPECIFICATIONS.

COMPARATOR

SAME AS AN OP-AMP WITHOUT A FEEDBACK RESISTOR. ULTRA-HIGH GAIN GIVES A SNAP-LIKE RESPONSE TO AN INPUT VOLTAGE AT ONE INPUT THAT EXCEEDS A REFERENCE VOLTAGE AT THE SECOND INPUT.

TIMERS

USE ALONE OR WITH OTHER ICs FOR NUMEROUS TIMING AND PULSE GENERATION APPLICATIONS.

LED CHIPS

MOST IMPORTANT ARE A FLASHER CHIP AND A DOT-BARGRAPH ANALOG-TO-DIGITAL DISPLAY. VERY EASY TO USE.

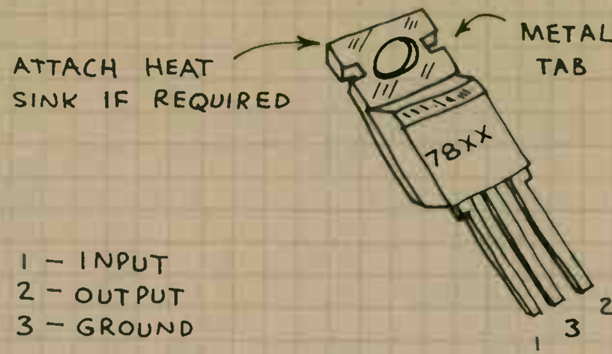
OSCILLATORS

A VOLTAGE CONTROLLED OSCILLATOR AND A COMBINED VOLTAGE-TO-FREQUENCY AND FREQUENCY-TO-VOLTAGE CONVERTER. ALSO INCLUDED IS A TONE DECODER THAT CAN BE SET TO INDICATE A SPECIFIC FREQUENCY.

AUDIO AMPLIFIERS

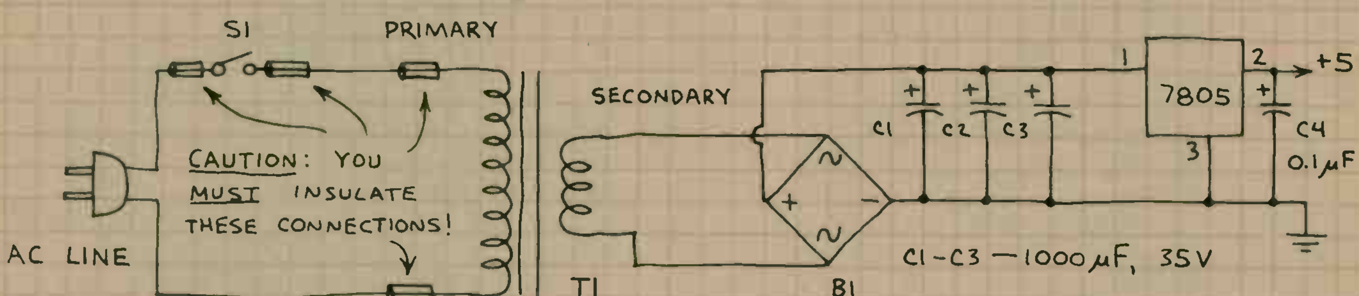
THIS SECTION INCLUDES SEVERAL EASY TO USE POWER AMPLIFIERS THAT ARE IDEAL FOR DO-IT-YOURSELF STEREO, PUBLIC ADDRESS SYSTEMS, INTERCOMS AND OTHER AUDIO APPLICATIONS.

VOLTAGE REGULATORS
7805 (5-VOLTS)
7812 (12-VOLTS)
7815 (15-VOLTS)



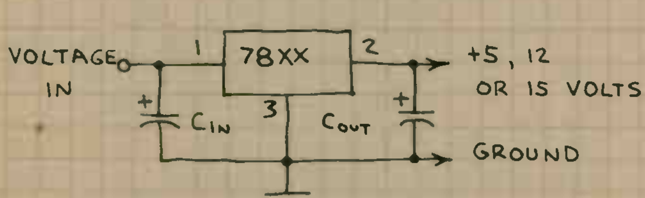
FIXED VOLTAGE REGULATORS. IDEAL FOR STAND-ALONE POWER SUPPLIES, ON-CARD REGULATORS, AUTOMOBILE BATTERY POWERED PROJECTS, ETC. UP TO 1.5 AMPERES OUTPUT IF PROPERLY HEAT SUNK AND SUFFICIENT INPUT CURRENT AVAILABLE. THERMAL SHUTDOWN CIRCUIT TURNS OFF REGULATOR IF HEATSINK TOO SMALL.

5-VOLT LINE POWERED TTL/LS POWER SUPPLY



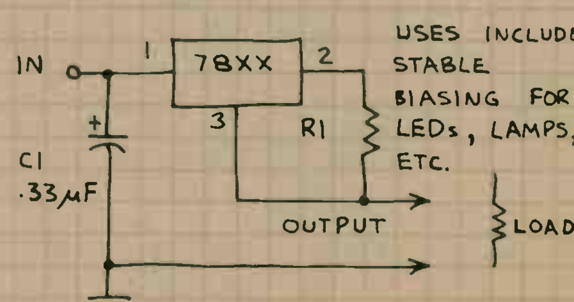
T1 — 117 — 12.6 V, 1.2 A OR 3A TRANSFORMER (273-1505 OR 273-1511).
B1 — 1A — 4A FULL WAVE BRIDGE RECTIFIER (276-1161, 276-1151 OR 276-1171).
(RADIO SHACK CATALOG NUMBERS IN PARENTHESES.)

VOLTAGE REGULATOR



C_{IN} — OPTIONAL; USE 0.33µF OR SO IF REGULATOR FAR FROM POWER SUPPLY.
C_{OUT} — OPTIONAL; USE 0.1µF OR MORE TO TRAP SPIKES THAT BOTHER LOGIC ICs.

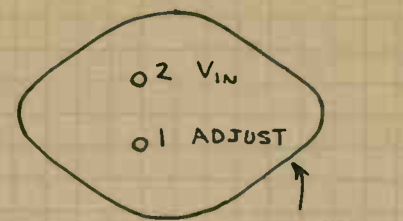
CURRENT REGULATOR



$$\text{OUTPUT CURRENT} = \frac{\text{REGULATOR VOLTS}}{\text{R1}}$$

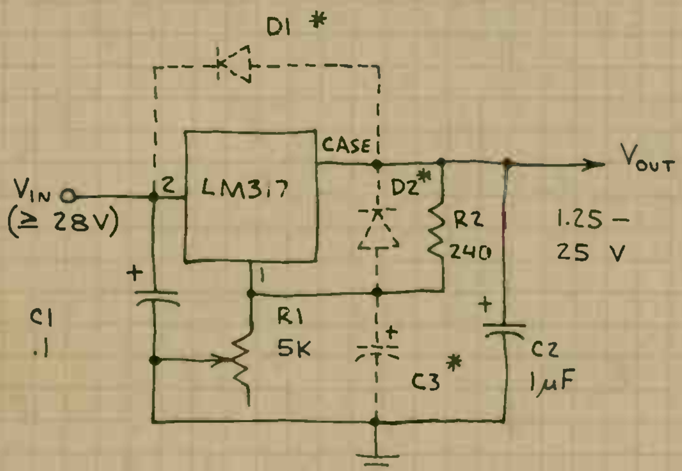
1.2–37 VOLT REGULATOR
LM317

CAN SUPPLY UP TO 1.5 AMPERES OVER A 1.2–37 VOLT OUTPUT RANGE. NOTE MINIMUM NUMBER OF EXTERNAL COMPONENTS IN BASIC REGULATOR CIRCUIT BELOW. USE HEAT SINK FOR APPLICATIONS REQUIRING FULL POWER OUTPUT. SEE APPROPRIATE DATA BOOK FOR ADDITIONAL INFORMATION:



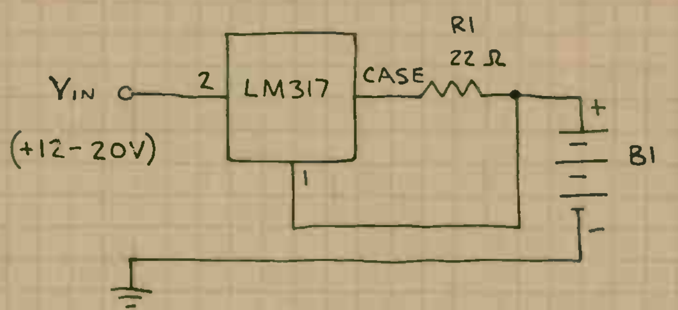
BOTTOM VIEW (TO-3 CASE)

1.25-25 VOLT REGULATOR



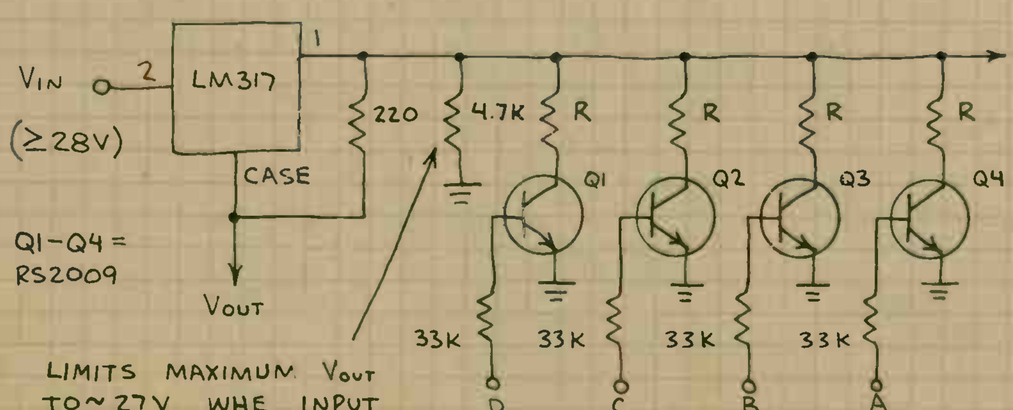
V_{IN} SHOULD BE FILTERED. OK TO OMIT C1 IF V_{IN} VERY CLOSE TO LM317. R1 CONTROLS OUTPUT VOLTAGE.
* ADD IF OUTPUT > 25 V AND C2 > 25μF.

6-VOLT NICAD CHARGER



B1 IS BATTERY OF 4 NICKEL CADMIUM STORAGE CELLS IN SERIES. THIS CIRCUIT CHARGES B1 AT A CURRENT OF 51.2 mA. INCREASE R1 TO REDUCE CURRENT. FOR EXAMPLE, CURRENT IS 43 mA WHEN R1 IS 24 OHMS.

PROGRAMMABLE POWER SUPPLY



Q1–Q4 = RS2009

LIMITS MAXIMUM V_{OUT} TO ~ 27V WHE INPUT IS 28 V.

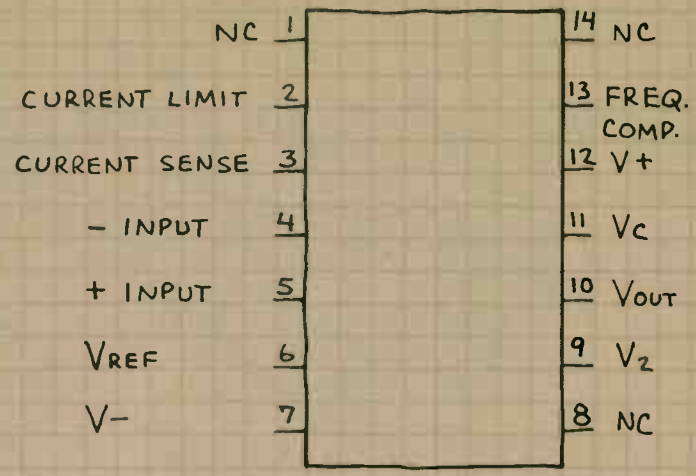
TO ADDITIONAL STAGES

DCBA INPUTS: CONNECT TO PIN 2 TO SELECT.

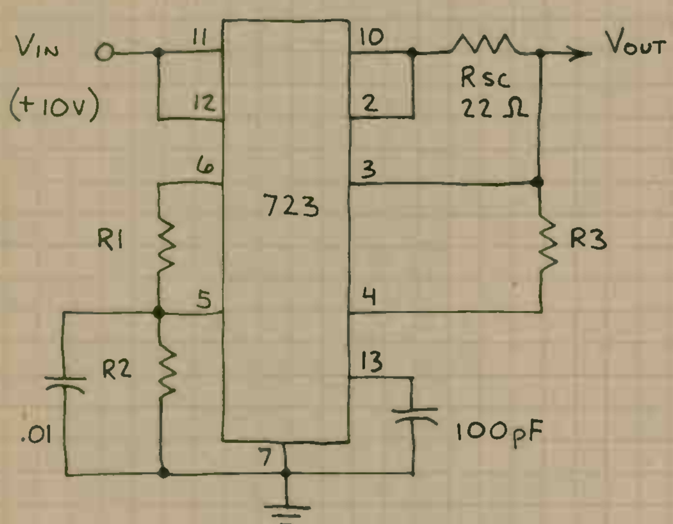
R	V_{OUT}
100	1.8
330	3.0
470	4.0
1K	7.3
2.2K	13.5
3.3K	18.0

2-37 VOLT REGULATOR
723

VERY VERSATILE SERIES REGULATOR. UP TO 40 VOLTS INPUT AND 2-37 VOLT OUTPUT. MAXIMUM OUTPUT CURRENT OF 150 mA CAN BE EXTENDED TO 10 A BY ADDING EXTERNAL POWER TRANSISTORS. SHOWN BELOW ARE TWO BASIC CIRCUITS. TRY THESE, THEN SEE APPROPRIATE DATA BOOK FOR ADDITIONAL CIRCUITS.



2-7 VOLT REGULATOR



TYPICAL VALUES

VOUT	R1	R2	R3
3.0	4.12 K	3.01 K	1.74 K
3.6	3.57 K	3.65 K	1.80 K
5.0	2.15 K	4.99 K	1.50 K
6.0	1.15 K	6.04 K	966

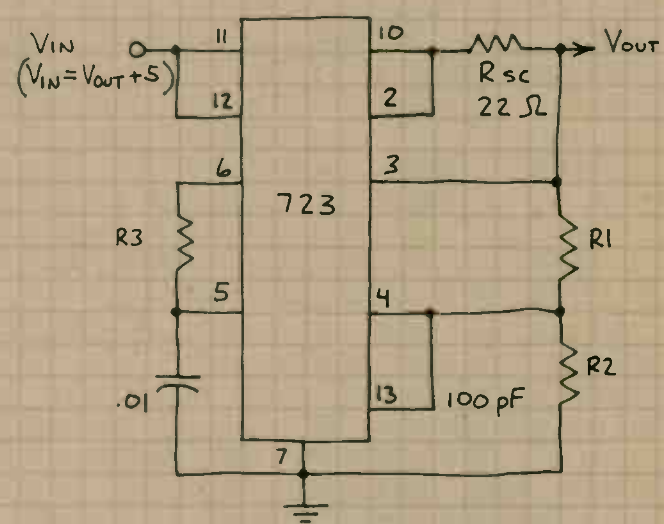
FOR ANY VOLTAGE BETWEEN 2-7 VOLTS:

$$V_{OUT} = (V_{REF}^{*}) \times \left(\frac{R2}{R + R2}\right)$$

*V_{REF} = 6.8−7.5 V (MEASURE AT PIN 6)

$$R3 = \frac{R1 \times R2}{R1 + R2}$$

7-37 VOLT REGULATOR



TYPICAL VALUES

VOUT	R1	R2	R3
9	1.87 K	7.15 K	.48K
12	4.87 K	7.15 K	2.90K
15	7.87 K	7.15 K	3.75 K
28	21.0 K	7.15 K	5.33 K

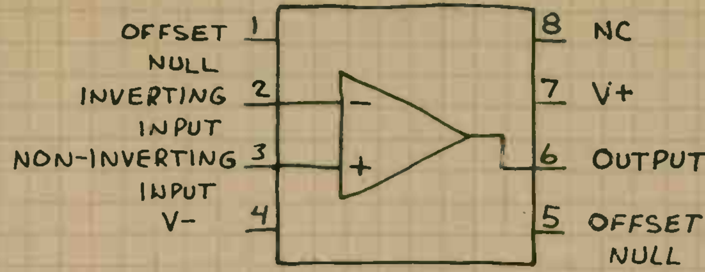
FOR ANY VOLTAGE BETWEEN 7-37 VOLTS:

$$V_{OUT} = (V_{REF}^{*}) \times \left(\frac{R1 + R2}{R2}\right)$$

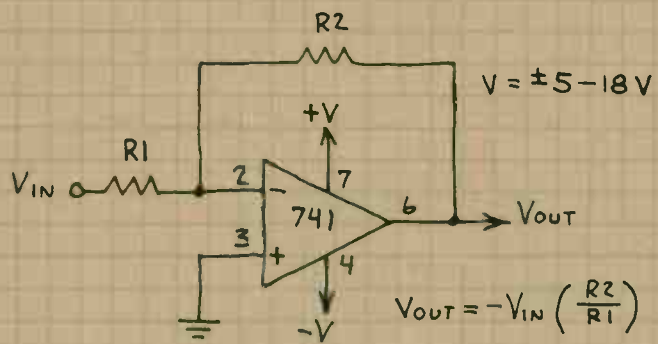
$$R3 = \frac{R1 \times R2}{R1 + R2}$$ (R3, WHICH IS OPTIONAL, GIVES TEMPERATURE STABILITY)

OPERATIONAL AMPLIFIER
741C

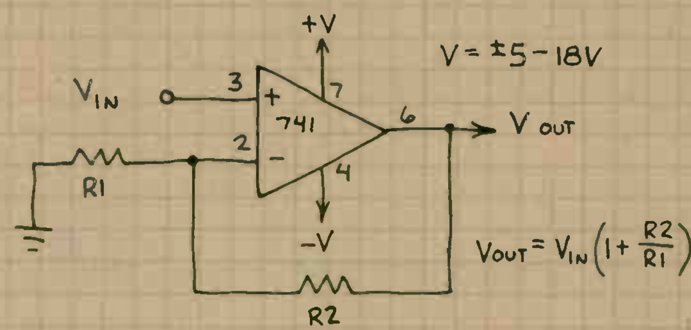
THE MOST POPULAR OP-AMP. USE FOR ALL GENERAL PURPOSE APPLICATIONS. (FOR SINGLE SUPPLY OPERATION AND VERY HIGH INPUT IMPEDANCE, USE OTHER OP-AMPS IN THIS NOTEBOOK.)



INVERTING AMPLIFIER

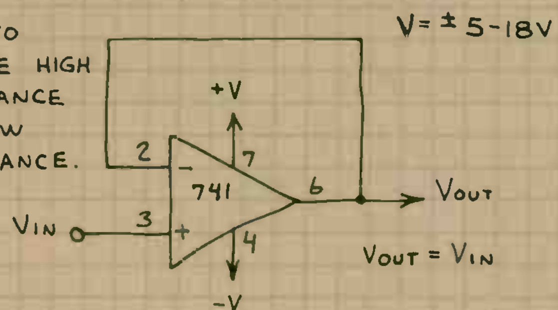


NON-INVERTING AMPLIFIER

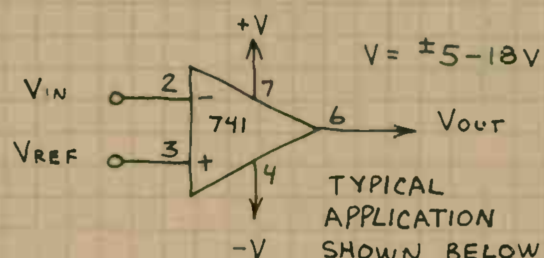


UNITY GAIN FOLLOWER

USE TO COUPLE HIGH IMPEDANCE TO LOW IMPEDANCE.

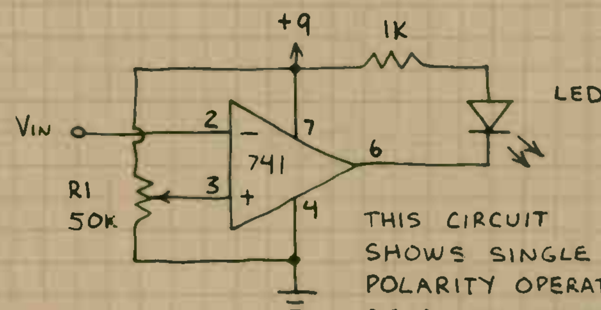


COMPARATOR



TYPICAL APPLICATION SHOWN BELOW

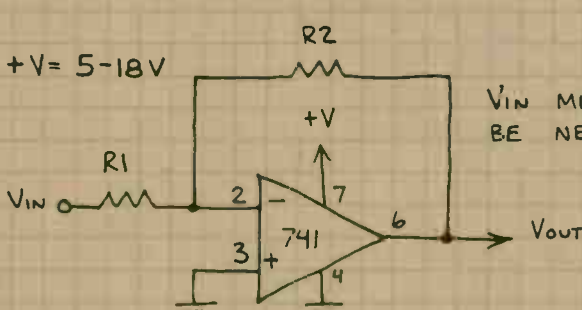
LEVEL DETECTOR



THIS CIRCUIT SHOWS SINGLE POLARITY OPERATION OF A COMPARATOR.

R1 SETS THE VOLTAGE DETECTION THRESHOLD (UP TO +9). WHEN VIN EXCEEDS THE THRESHOLD (ALSO CALLED THE REFERENCE), THE LED GLOWS.

SINGLE POLARITY SUPPLY

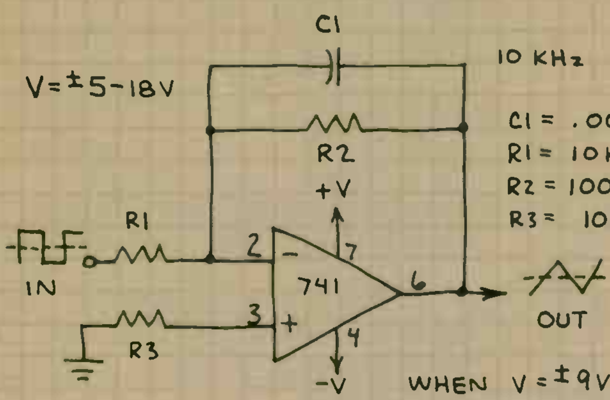


VIN MUST BE NEGATIVE.

TYPICAL USES:
AMPLIFICATION OF DC VOLTAGE AND PULSES.

OPERATIONAL AMPLIFIER (CONTINUED)
741C

BASIC INTEGRATOR

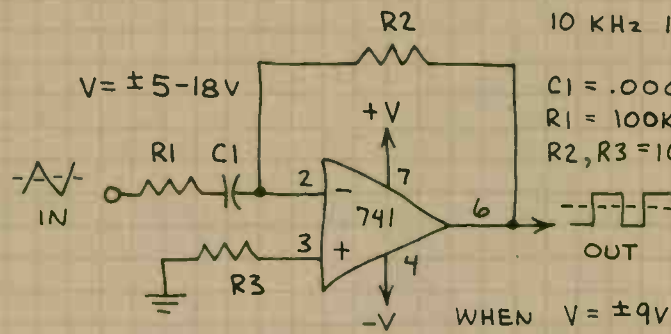


10 KHz IN:

C1 = .001
R1 = 10K
R2 = 100K
R3 = 10K

WHEN V = ±9V
AND IN = ±.25V,
OUT = ±1V.

BASIC DIFFERENTIATOR

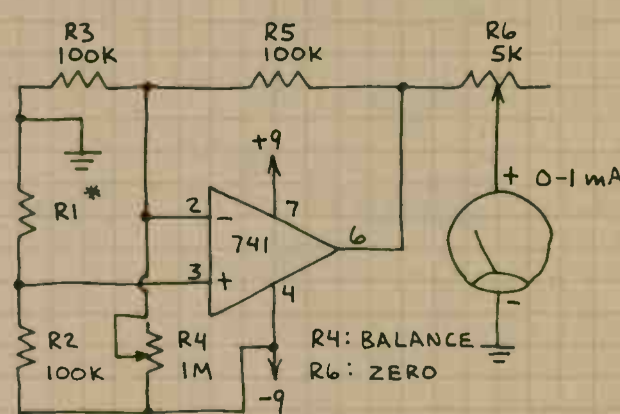


10 KHz IN:

C1 = .00022μF
R1 = 100K
R2, R3 = 10K

WHEN V = ±9V
AND IN = ±.25V,
OUT = ±.25V

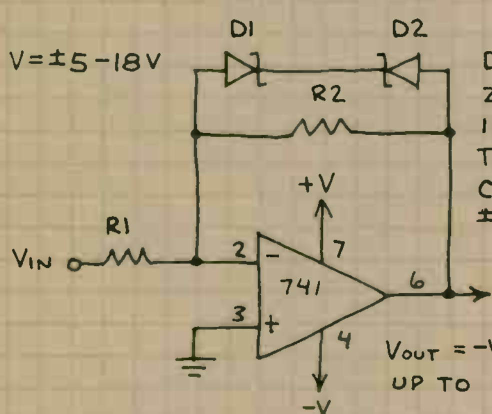
BRIDGE AMPLIFIER



R4: BALANCE
R6: ZERO

*R1 IS UNKNOWN RESISTOR. USE CdS CELL FOR R1 TO MAKE A VERY SENSITIVE LIGHT METER.

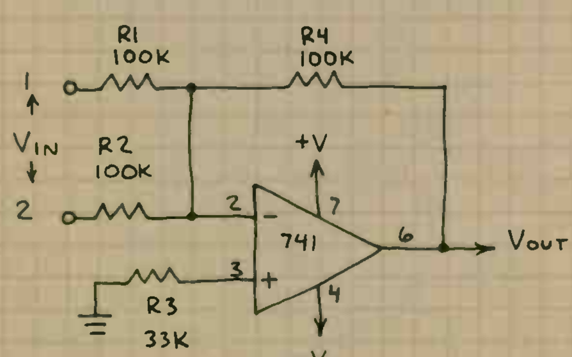
CLIPPING AMPLIFIER



D1 AND D2 = ZENER DIODES. IF $V_Z = 6V$, THEN OUTPUT CANNOT EXCEED ±6.7 V.

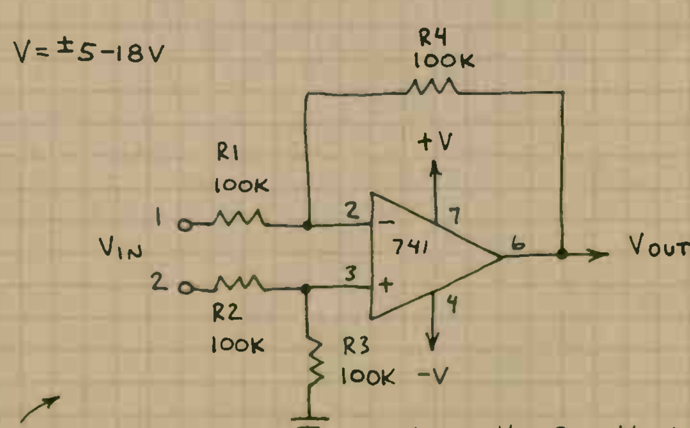
$V_{OUT} = -V_{IN}\left(\frac{R2}{R1}\right)$ ... UP TO $V_Z + 0.7$ V.

SUMMING AMPLIFIER



$V_{OUT} = -(V_{IN}1 + V_{IN}2)$

DIFFERENCE AMPLIFIER

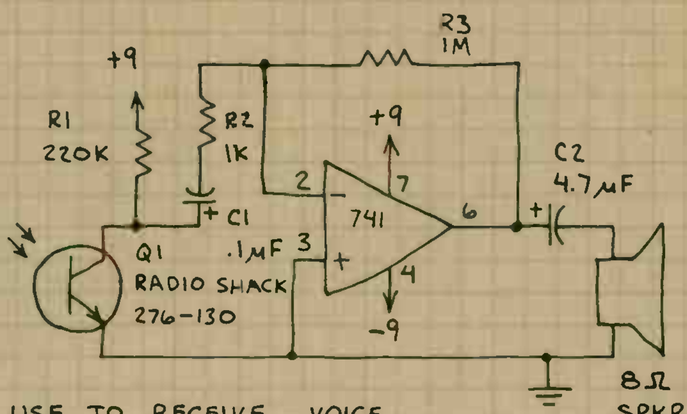


NOTE: V_{OUT} CANNOT EXCEED ±V.

$V_{OUT} = V_{IN}2 - V_{IN}1$

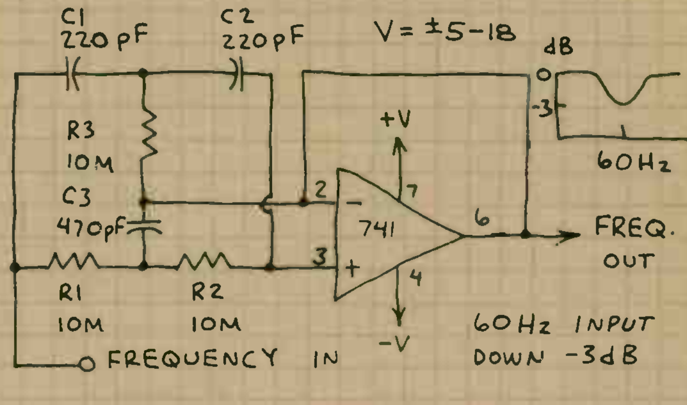
OPERATIONAL AMPLIFIER (CONTINUED)
741C

LIGHT WAVE RECEIVER

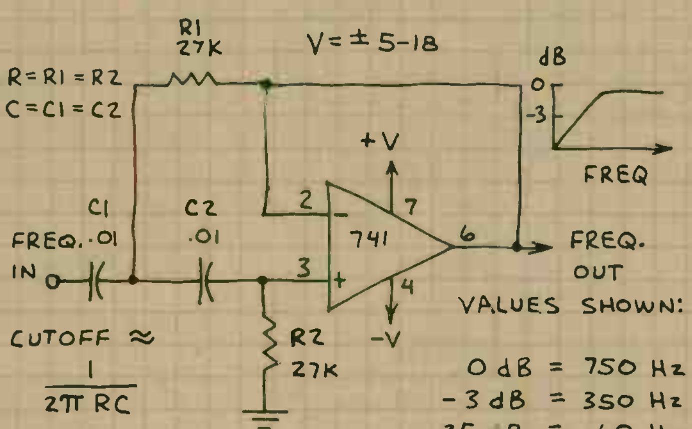


USE TO RECEIVE VOICE MODULATED LIGHT WAVES. OK TO USE SINGLE POLARITY POWER SUPPLY FOR NON-VOICE RECEPTION.

60-Hz NOTCH FILTER



HIGH PASS ACTIVE FILTER

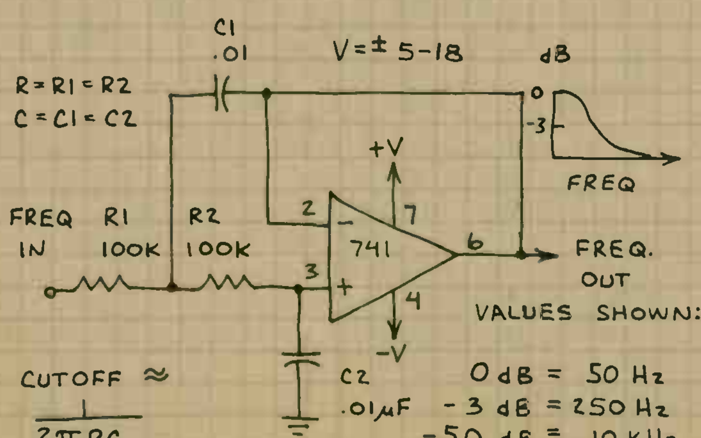


CUTOFF ≈ $\frac{1}{2\pi RC}$

VALUES SHOWN:

0 dB = 750 Hz
-3 dB = 350 Hz
-35 dB = 60 Hz

LOW PASS ACTIVE FILTER

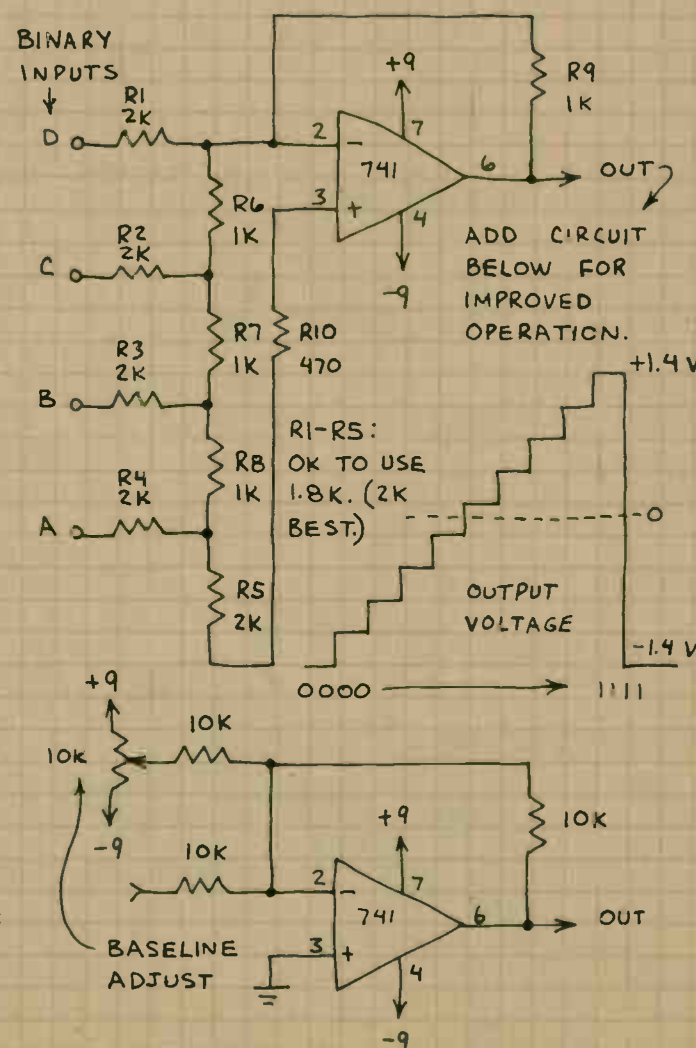


CUTOFF ≈ $\frac{1}{2\pi RC}$

VALUES SHOWN:

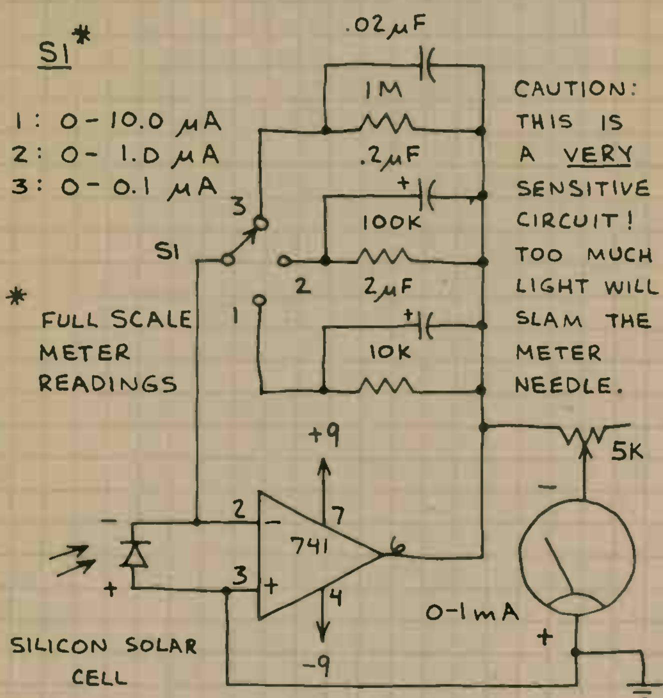
0 dB = 50 Hz
-3 dB = 250 Hz
-50 dB = 10 KHz

4-BIT D/A CONVERTER



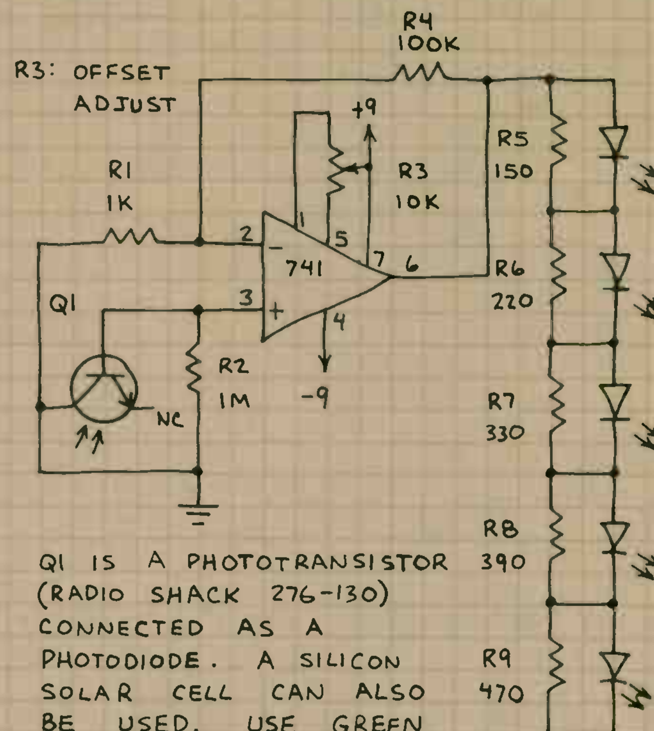
OPERATIONAL AMPLIFIER (CONTINUED)
741C

OPTICAL POWER METER



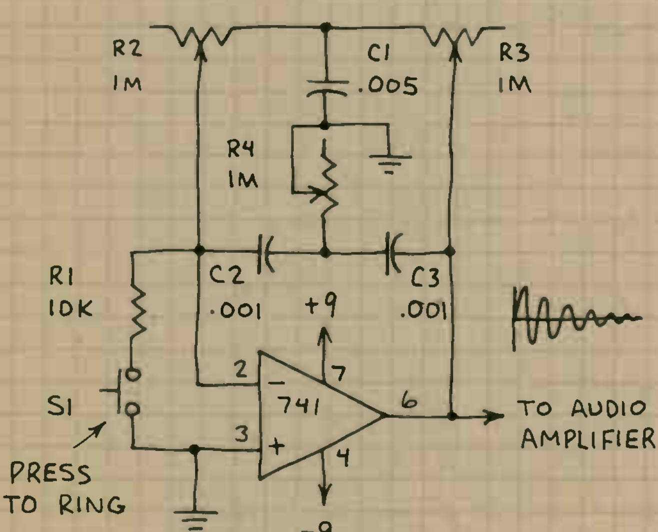
THIS CIRCUIT CAN BE USED AS A FAIRLY GOOD QUALITY RADIOMETER.

BARGRAPH LIGHT METER



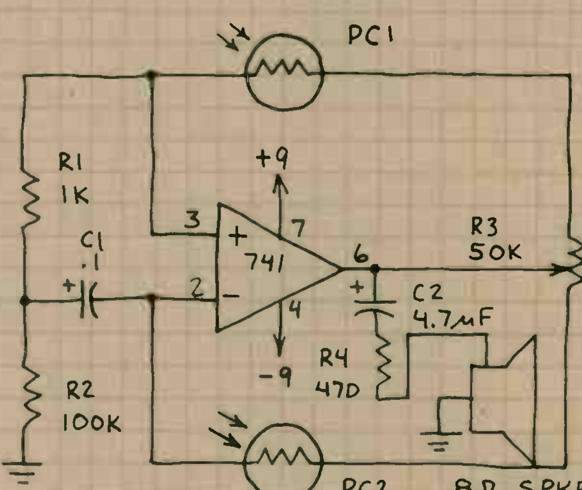
Q1 IS A PHOTOTRANSISTOR (RADIO SHACK 276-130) CONNECTED AS A PHOTODIODE. A SILICON SOLAR CELL CAN ALSO BE USED. USE GREEN LEDs FOR READOUT.

ELECTRONIC BELL



ADJUST R3 TO JUST BELOW OSCILLATION POINT. ADJUST R2 AND R3 FOR SOUNDS SUCH AS BELL, DRUM, TINKLING, ETC.

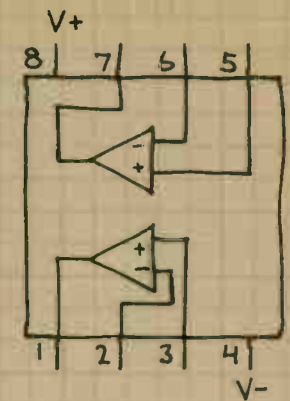
AUDIBLE LIGHT SENSOR



PC1, PC2 — CdS PHOTOCELLS (RADIO SHACK 276-116)

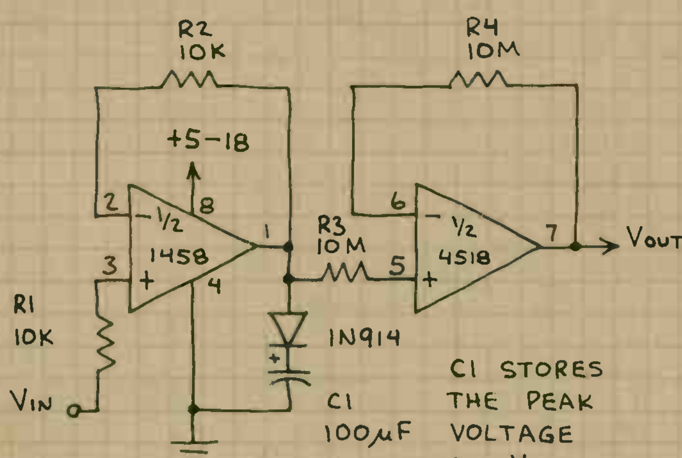
LIGHT ON PC1 DECREASES TONE FREQUENCY.
LIGHT ON PC2 INCREASES TONE FREQUENCY.

DUAL OPERATIONAL AMPLIFIER
1458



TWO 741C OP-AMPS IN A SINGLE 8-PIN MINI-DIP. TRY TO USE THIS CHIP FOR CIRCUITS THAT REQUIRE TWO OR MORE 741'S. YOU'LL SAVE TIME, SPACE AND MONEY.

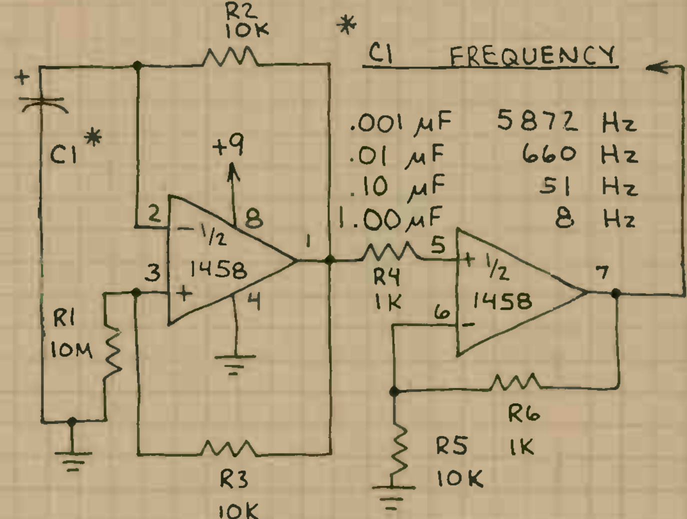
PEAK DETECTOR



C1 STORES THE PEAK VOLTAGE AT VIN.

APPLICATIONS INCLUDE USE AS ANALOG "MEMORY" THAT STORES PEAK AMPLITUDE OF A FLUCTUATING VOLTAGE.

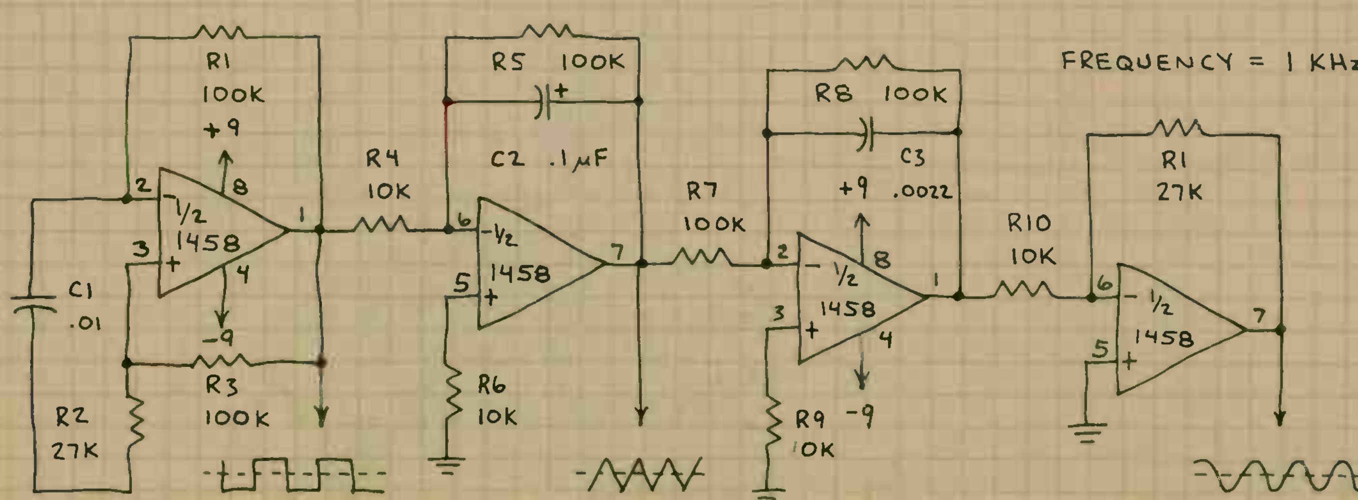
PULSE GENERATOR



* C1	FREQUENCY
.001 μF	5872 Hz
.01 μF	660 Hz
.10 μF	51 Hz
1.00 μF	8 Hz

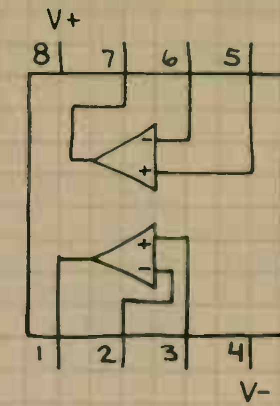
PULSES ARE DC. AMPLITUDE WHEN C1 = 0.1 μF IS 5 VOLTS.

FUNCTION GENERATOR



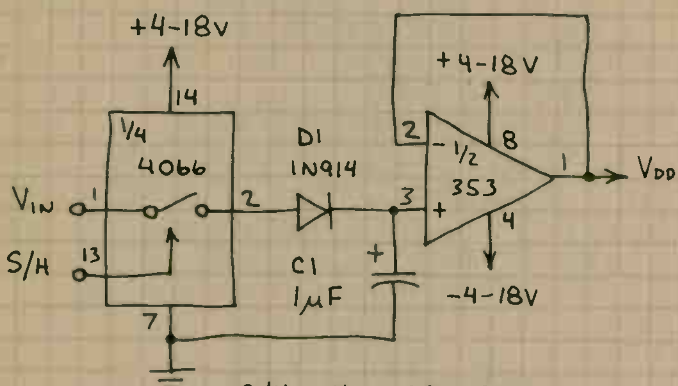
SQUARE: ±7.5V TRIANGLE: ±2V SINE: ±2V

DUAL OPERATIONAL AMPLIFIER LF353N (JFET INPUT)



HIGH IMPEDANCE (10^{12} OHM) JUNCTION FET INPUTS. OUTPUT SHORT CIRCUIT PROTECTION. HIGH SLEW RATE (13 V/μSEC), LOW NOISE OPERATION. AMPLIFIERS ARE SIMILAR TO THOSE IN THE TL084C. NOTE THAT PIN CONNECTIONS ARE THE SAME AS 1458. THIS OP-AMP, HOWEVER, OFFERS MUCH BETTER PERFORMANCE.

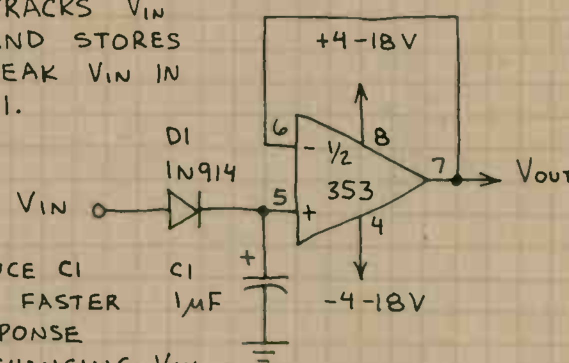
SAMPLE AND HOLD



S/H: H = SAMPLE
L = HOLD

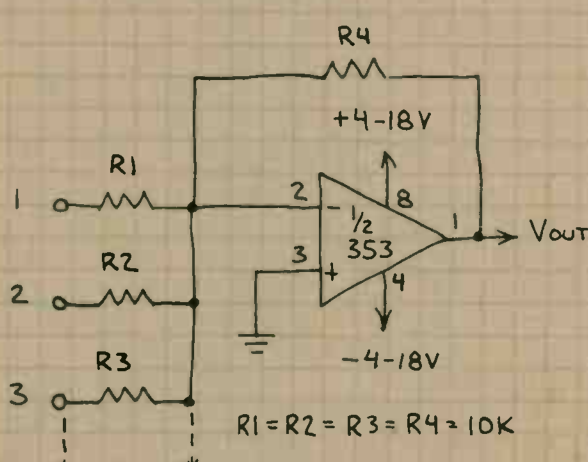
PEAK DETECTOR

TRACKS V_{IN} AND STORES PEAK V_{IN} IN C1.



REDUCE C1 FOR FASTER RESPONSE TO CHANGING V_{IN}

AUDIO MIXER

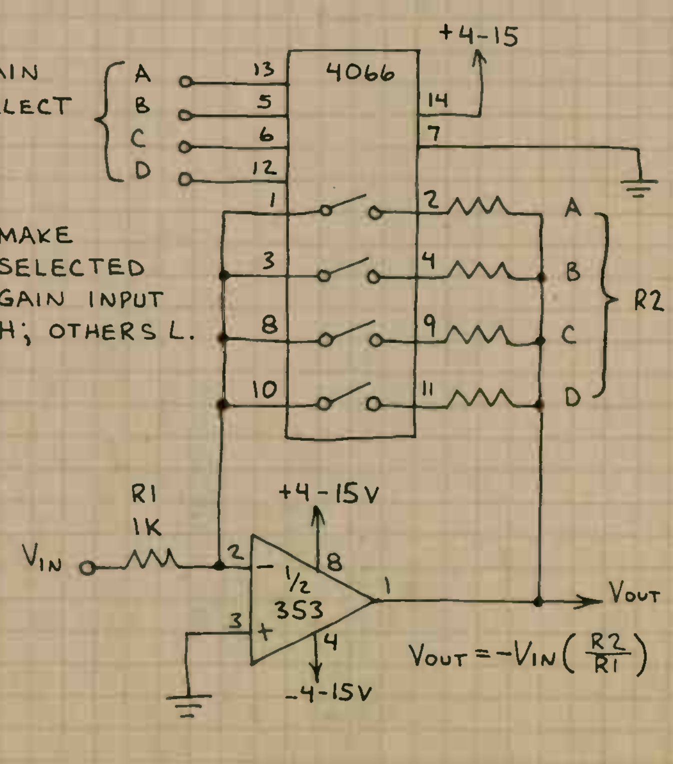


R1 = R2 = R3 = R4 = 10K

CONNECT OUTPUTS OF PREAMPLIFIERS TO INPUTS 1-3. OK TO ADD MORE CHANNELS. WORKS WELL WITH TL084 MICROPHONE PREAMPLIFIERS.

PROGRAMMABLE GAIN OP-AMP

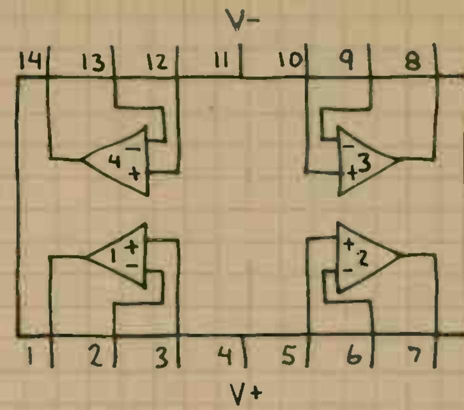
GAIN SELECT



MAKE SELECTED GAIN INPUT H; OTHERS L.

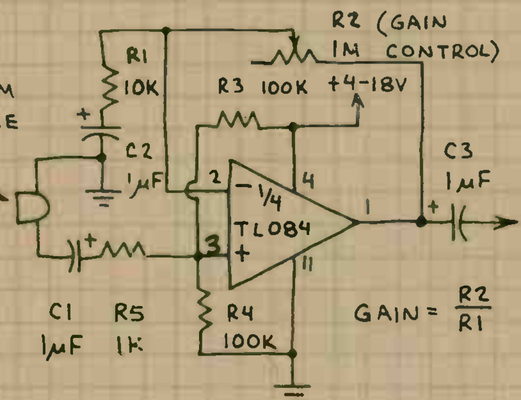
QUAD OPERATIONAL AMPLIFIER
TL084C (JFET INPUT)

HIGH IMPEDANCE (10^{12} OHMS) JUNCTION FET INPUTS. OUTPUT SHORT CIRCUIT PROTECTION. HIGH SLEW RATE (12 V/µSEC) PLUS LOW NOISE OPERATION. PERFORMANCE SIMILAR TO LF353N. NOTE THAT PIN CONNECTIONS ARE SAME AS LM324.



MICROPHONE PREAMPLIFIER

USE LOW TO MEDIUM IMPEDANCE DYNAMIC MIKE

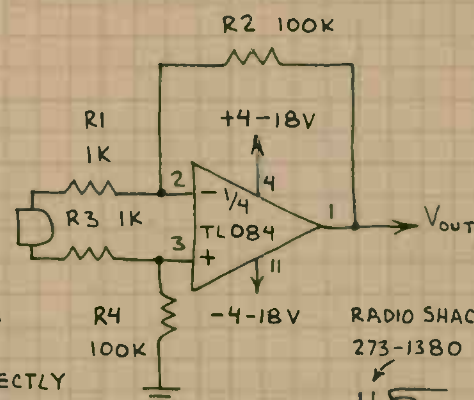


GAIN = $\frac{R2}{R1}$

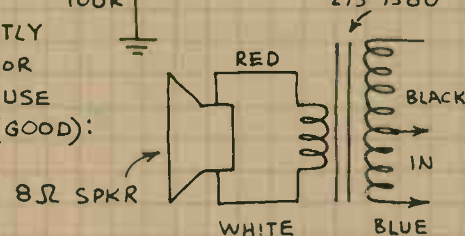
NOTE SINGLE POLARITY POWER SUPPLY (THANKS TO R3 AND R4) AND AC COUPLING.

LOW-Z PREAMPLIFIER

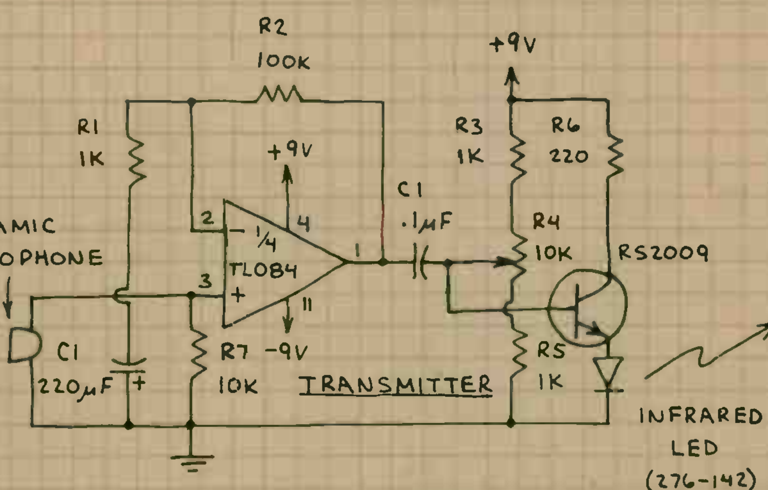
USE LOW IMPEDANCE (LOW-Z) MICROPHONE

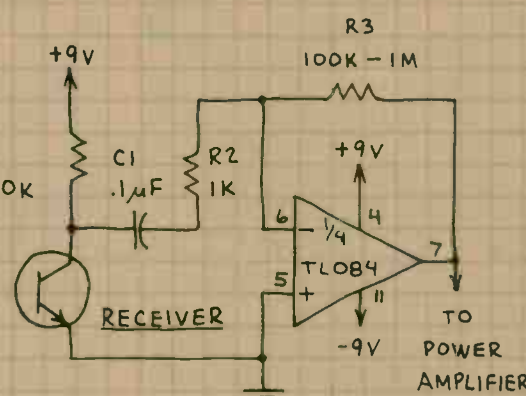


OK TO USE 8Ω SPKR AS MICROPHONE. CONNECT DIRECTLY TO INPUTS (POOR TO FAIR) OR USE TRANSFORMER (GOOD):



INFRARED VOICE COMMUNICATOR

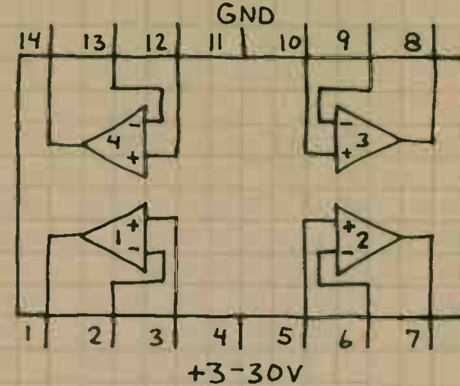




POINT THE LED AT Q1 AND ADJUST R4 UNTIL BEST VOICE QUALITY IS OBTAINED. (R4 APPLIES PREBIAS TO LED.) R6 LIMITS MAXIMUM LED CURRENT TO A SAFE 40 mA.

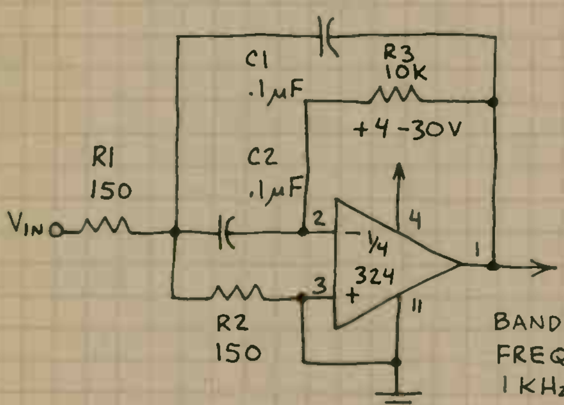
USE RADIO SHACK 276-130 PHOTOTRANSISTOR FOR Q1. MAXIMUM RANGE: HUNDREDS OF FEET AT NIGHT WITH LENSES AT Q1 AND LED. POWER AMP: SEE LM386.

QUAD OPERATIONAL AMPLIFIER
LM324N



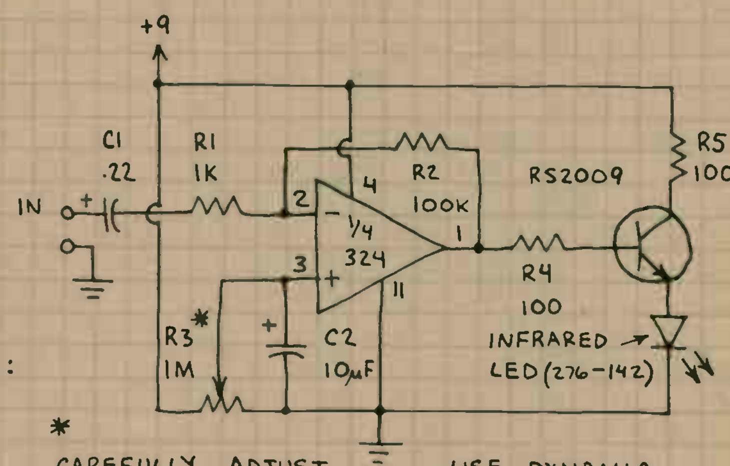
OPERATES FROM SINGLE POLARITY POWER SUPPLY. MORE GAIN (100 dB) BUT LESS BANDWIDTH (1 MHz WHEN GAIN IS 1) THAN THE LM3900 QUAD OP-AMP. NOTE UNUSUAL LOCATION OF POWER SUPPLY PINS. CAUTION: SHORTING THE OUTPUTS DIRECTLY TO V+ OR GND OR REVERSING THE POWER SUPPLY MAY DAMAGE THIS CHIP.

BANDPASS FILTER



BANDPASS FREQUENCY: 1 KHz

INFRARED TRANSMITTER

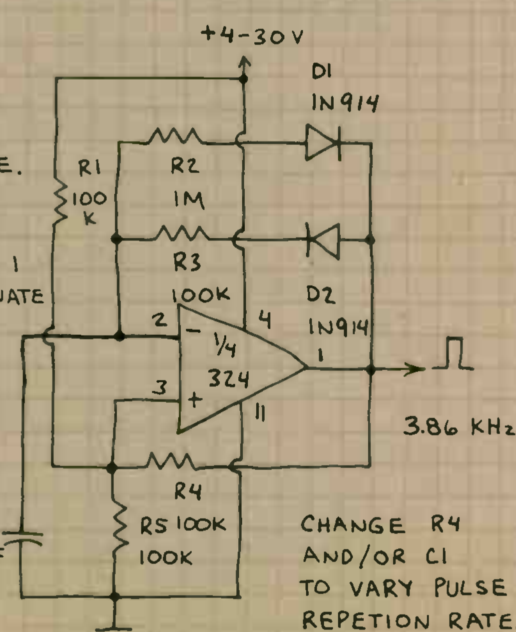


* CAREFULLY ADJUST R3 FOR BEST VOICE QUALITY. FOR MORE POWER REDUCE R5 TO 50Ω... BUT DO NOT ALLOW MORE THAN 30 mA THROUGH LED!

USE DYNAMIC MICROPHONE AT INPUT. RECEIVE SIGNAL WITH PHOTOTRANSISTOR PLUS OP-AMP.

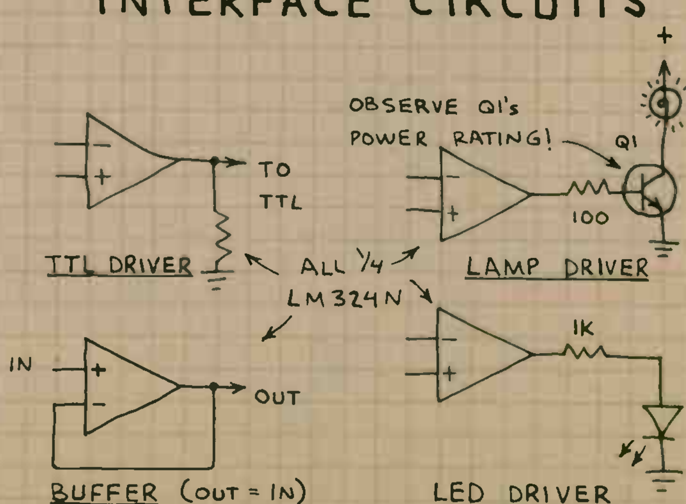
PULSE GENERATOR

D1-D2: OK TO ELIMINATE. IF SO, CONNECT R2 TO PIN 1 AND ELIMINATE R3.

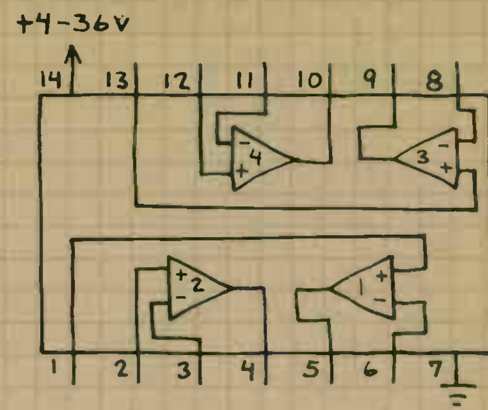


CHANGE R4 AND/OR C1 TO VARY PULSE REPETION RATE.

INTERFACE CIRCUITS

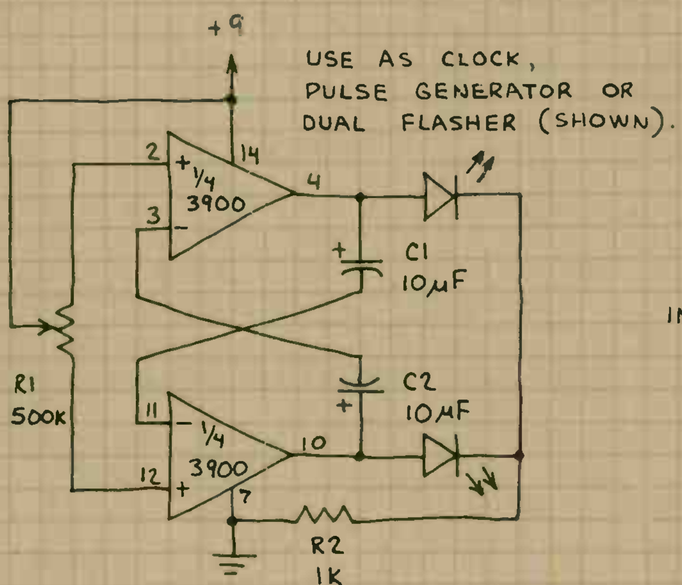


QUAD OPERATIONAL AMPLIFIER
LM3900N

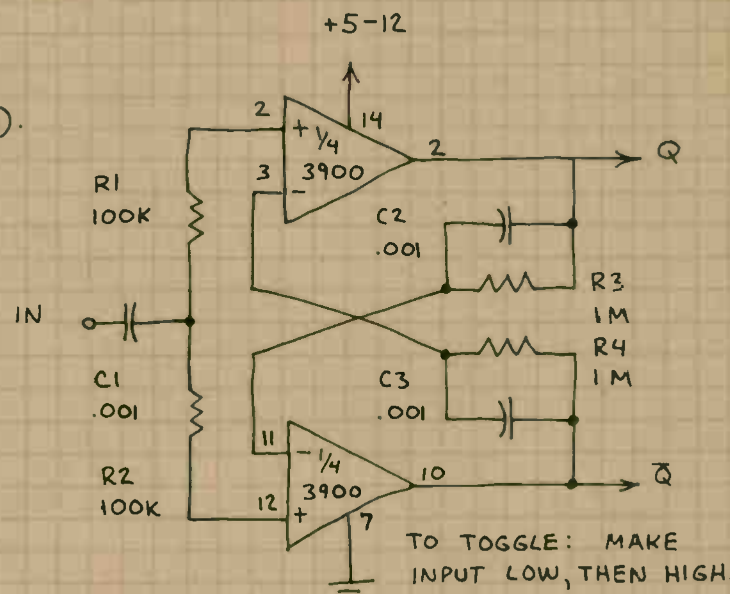


OPERATES FROM SINGLE POLARITY POWER SUPPLY. LESS GAIN (70 dB) BUT WIDER BANDWIDTH (2.5 MHz AT GAIN OF 1) THAN THE LM324 QUAD OP-AMP. NOTE STANDARD POWER SUPPLY PIN LOCATIONS. CAUTION: SHORTING THE OUTPUTS DIRECTLY TO V+ OR GROUND OR REVERSED POWER CONNECTIONS MAY DAMAGE THIS CHIP.

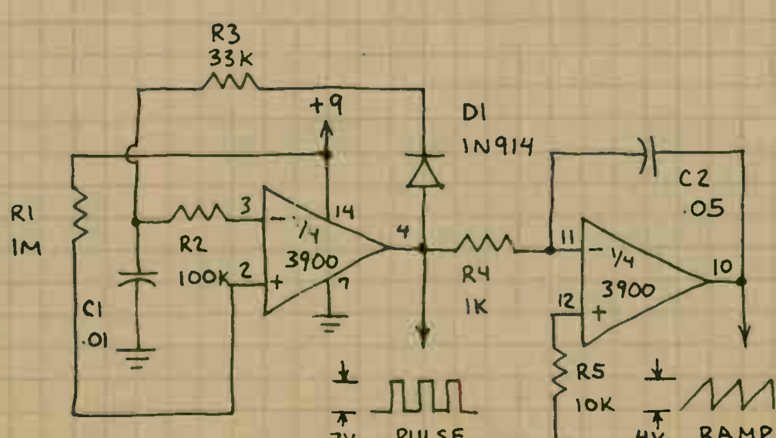
ASTABLE MULTIVIBRATOR



TOGGLE FLIP-FLOP

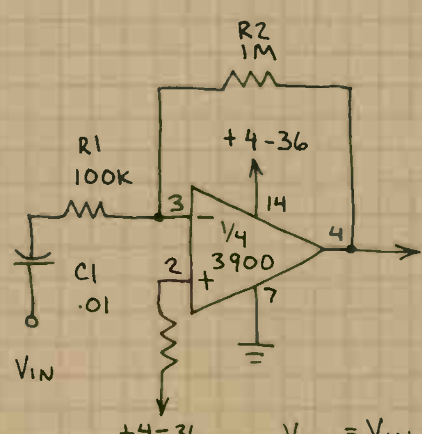


FUNCTION GENERATOR



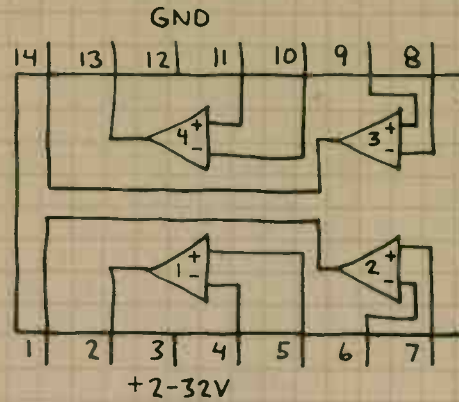
FREQUENCY = 1.2 KHz

X10 AMPLIFIER



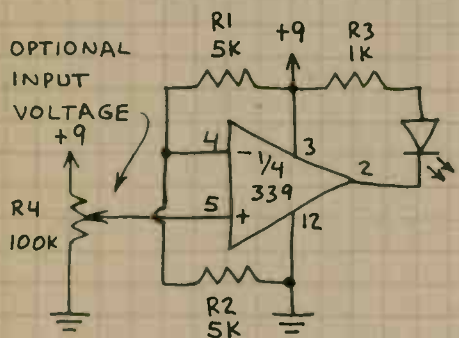
$V_{OUT} = V_{IN}\left(\frac{R2}{R1}\right)$

QUAD COMPARATOR
LM339 (276-1712)



FOUR INDEPENDENT VOLTAGE COMPARATORS IN A SINGLE PACKAGE. NOTE THAT A SINGLE POLARITY POWER SUPPLY IS REQUIRED. (MOST COMPARATORS ARE DESIGNED PRIMARILY FOR DUAL SUPPLY OPERATION.) NOTE UNUSUAL LOCATION OF THE SUPPLY PINS. COMPARATORS MAY OSCILLATE IF OUTPUT LEAD IS TOO CLOSE TO INPUT LEADS. GROUND <u>ALL</u> PINS OF UNUSED COMPARATORS.

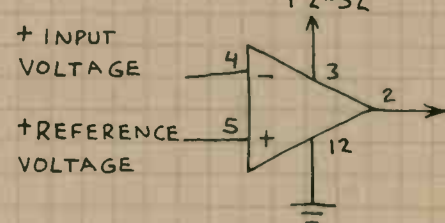
NON-INVERTING COMPARATOR



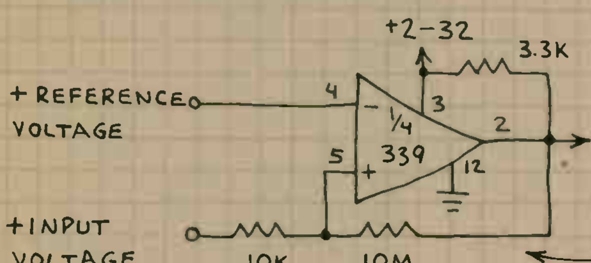
R1-R2 DETERMINE REFERENCE VOLTAGE (4.5 V AS SHOWN).

LED GLOWS WHEN INPUT VOLTAGE (PIN 5) FALLS <u>BELOW</u> REFERENCE VOLTAGE (PIN 4).

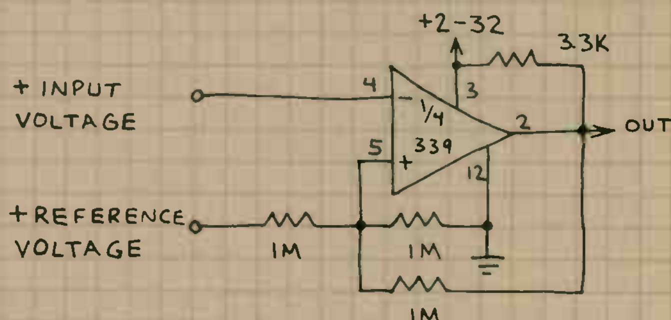
INVERTING COMPARATOR



NON-INVERTING COMPARATOR WITH HYSTERESIS

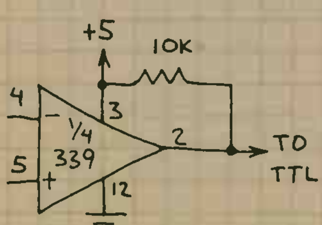


INVERTING COMPARATOR WITH HYSTERESIS

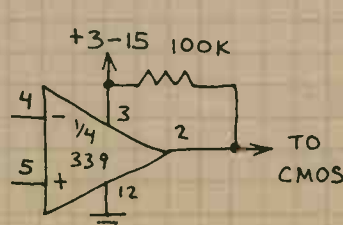


NOTE: HYSTERESIS PROVIDED BY FEEDBACK RESISTOR STOPS OSCILLATION.

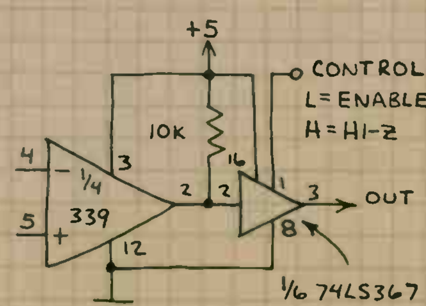
TTL DRIVER



CMOS DRIVER

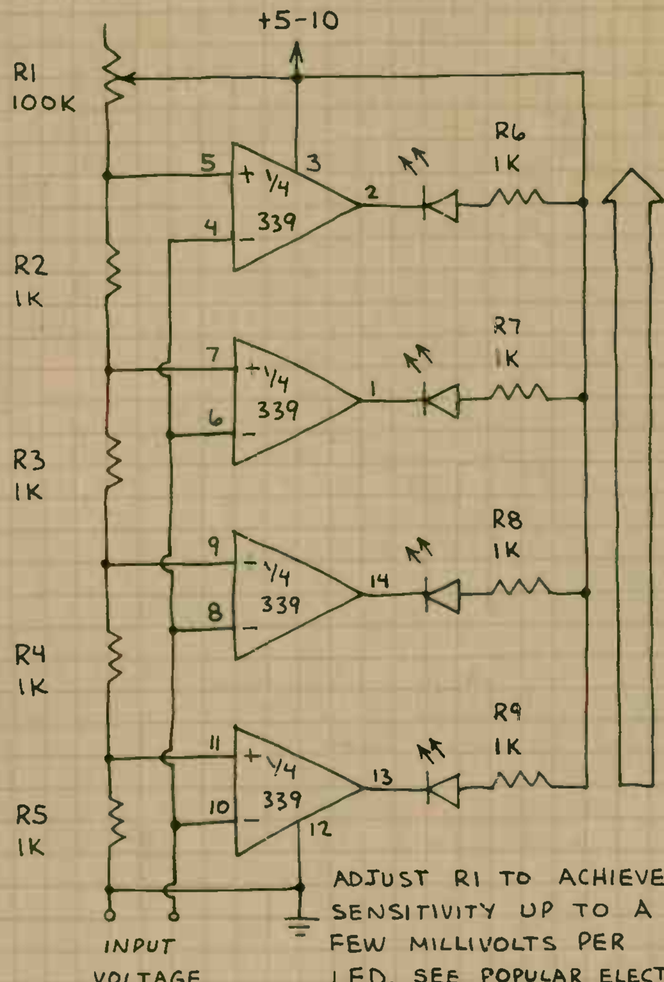


3-STATE OUTPUT



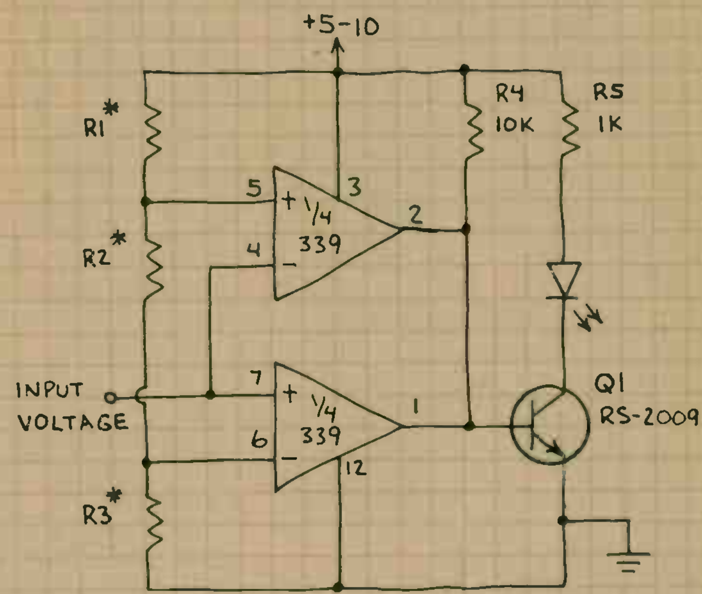
QUAD COMPARATOR (CONTINUED)
LM339

LED BARGRAPH READOUT



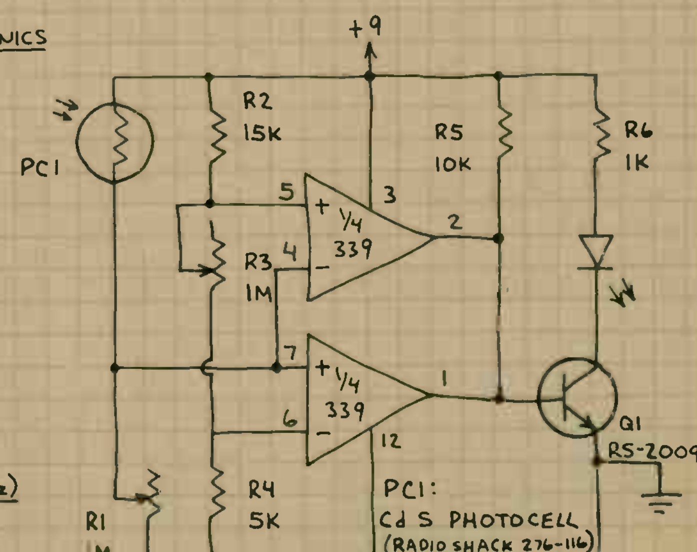
ADJUST R1 TO ACHIEVE SENSITIVITY UP TO A FEW MILLIVOLTS PER LED. SEE POPULAR ELECTRONICS (SEPT. 1978, pp. 92-97).

WINDOW COMPARATOR



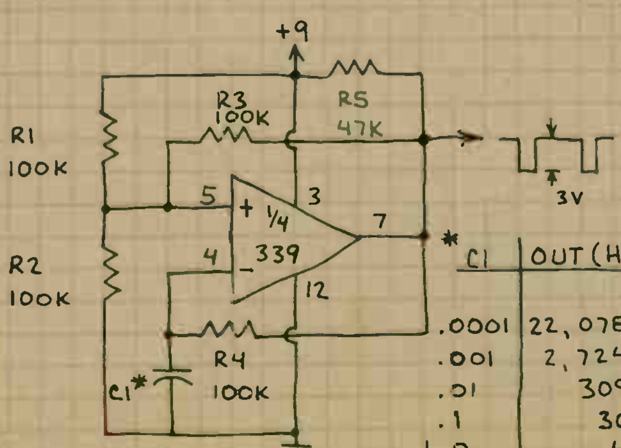
THE LED GLOWS WHEN THE INPUT VOLTAGE IS WITHIN THE WINDOW DETERMINED BY R1-R3. THE WINDOW IS 4-8 MILLIVOLTS WIDE
*WHEN R = 500Ω, R2 = 1200Ω AND R3 = 1M. IT EXTENDS FROM 1.5-4.2 VOLTS WHEN R1 AND R3= 15,000Ω AND R2= 25,000Ω. USE POTS FOR R1-R3 FOR A FULLY ADJUSTABLE WINDOW.

PROGRAMMABLE LIGHT METER



ADJUST R1 AND R3 SO LED GLOWS WHEN LIGHT AT PC1 IS ABOVE OR BELOW ANY DESIRED LEVEL.

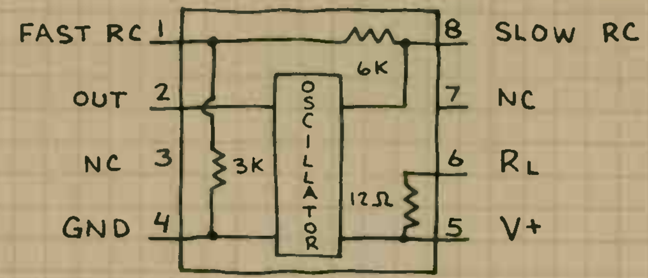
SQUAREWAVE OSCILLATOR



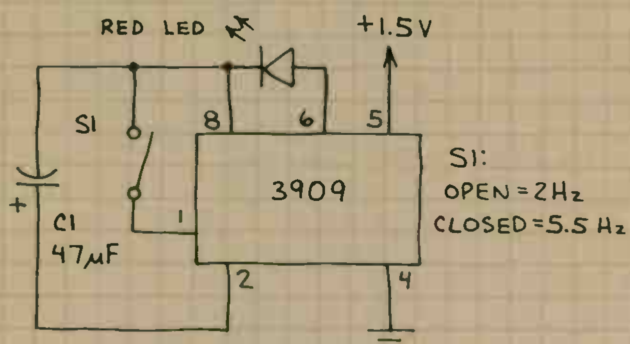
*C1	OUT (Hz)
.0001	22,078
.001	2,724
.01	309
.1	30
1.0	4

LED FLASHER / OSCILLATOR 3909

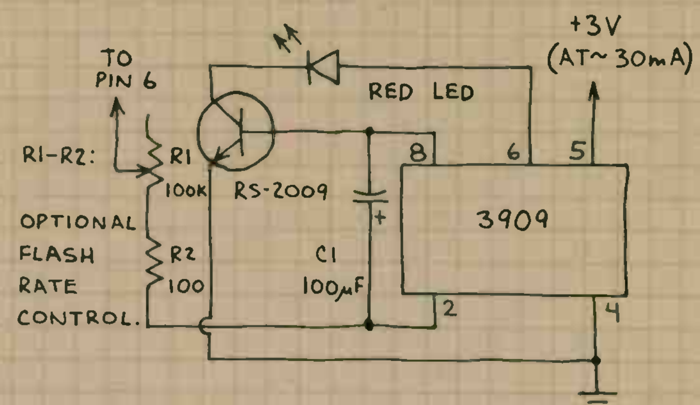
EASIEST TO USE IC IN THIS NOTEBOOK. FLASHES LEDs OR CAN BE USED AS TONE SOURCE. WILL DRIVE SPEAKER DIRECTLY. WILL FLASH A RED LED WHEN V+ IS ONLY 1.3 VOLTS.



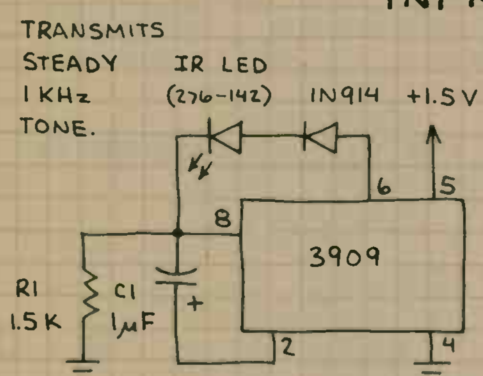
LED FLASHER

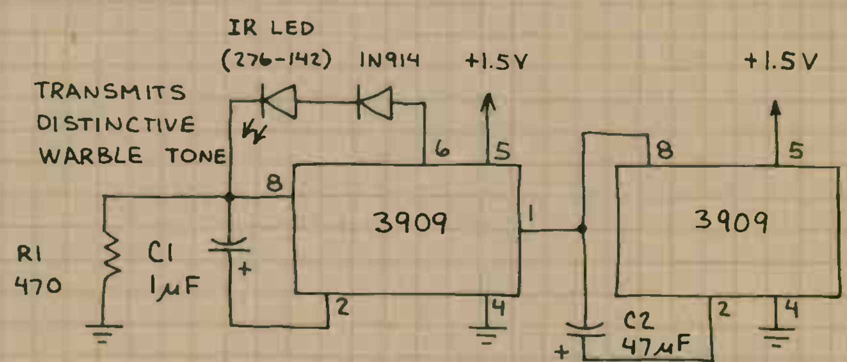


POWER FLASHER

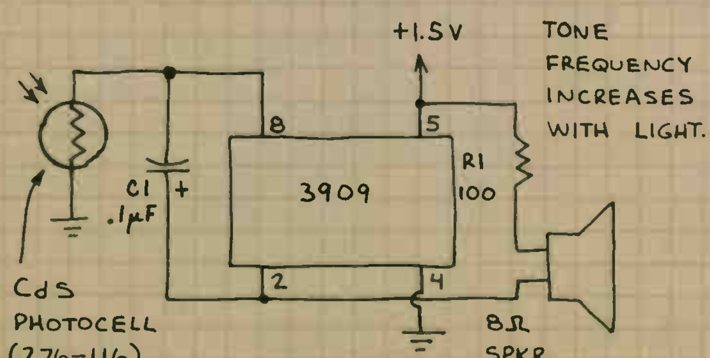


INFRARED TRANSMITTERS

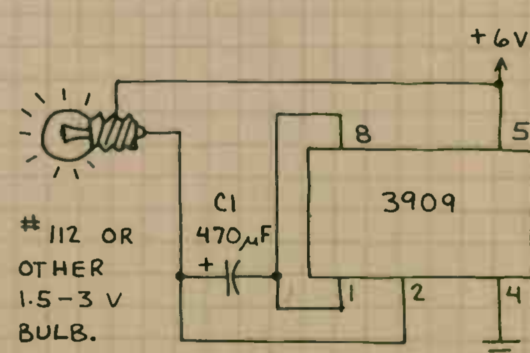




LIGHT CONTROLLED TONE

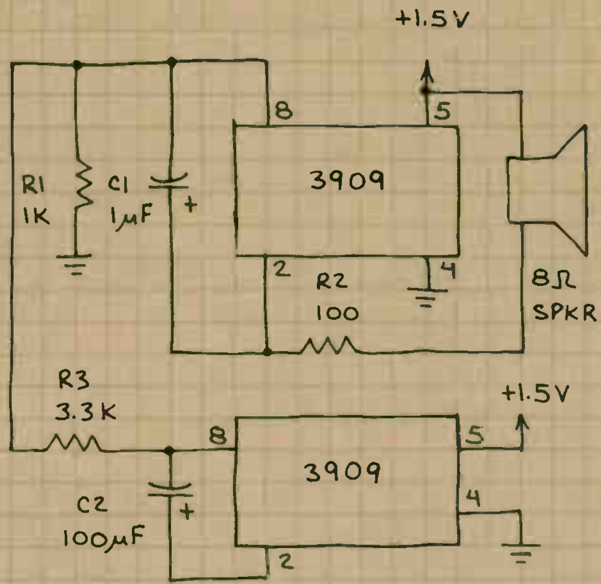


LAMP FLASHER

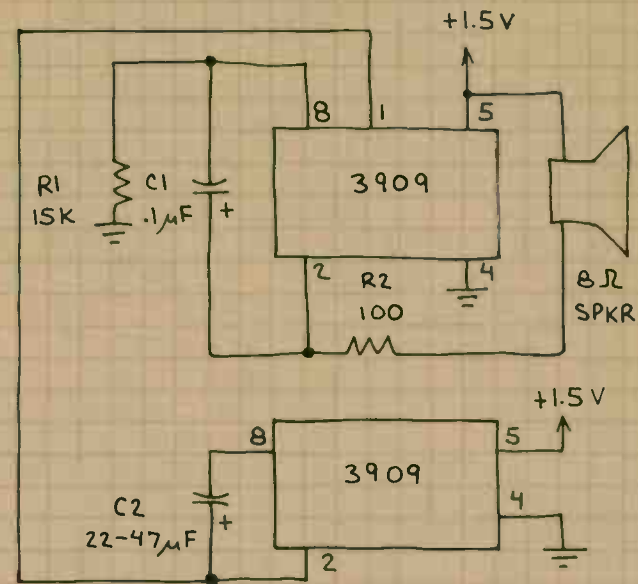


LED FLASHER / OSCILLATOR (CONTINUED)
3909

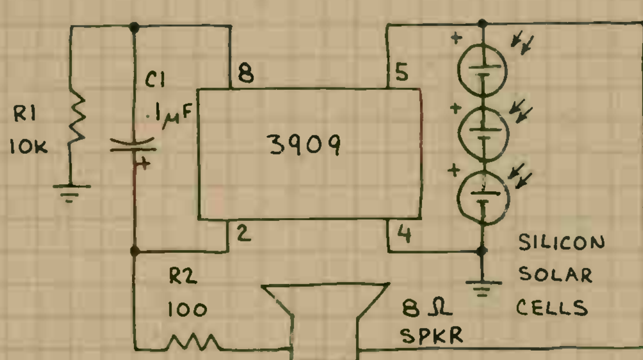
WHOOPER



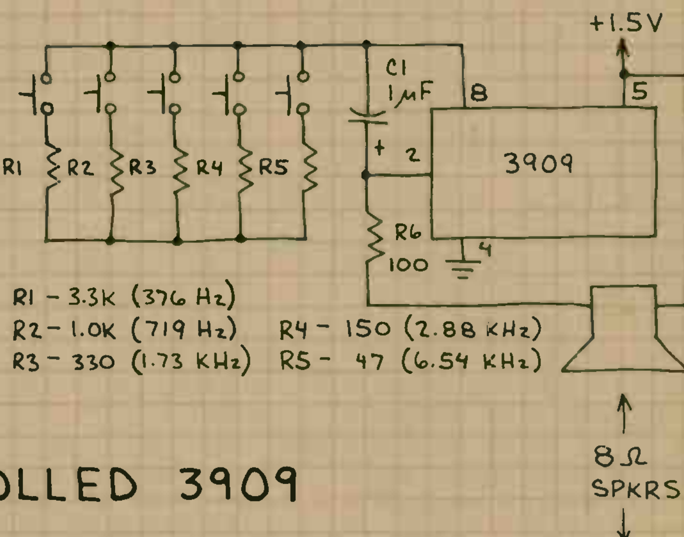
CHIRPER



SUN POWERED OSCILLATOR

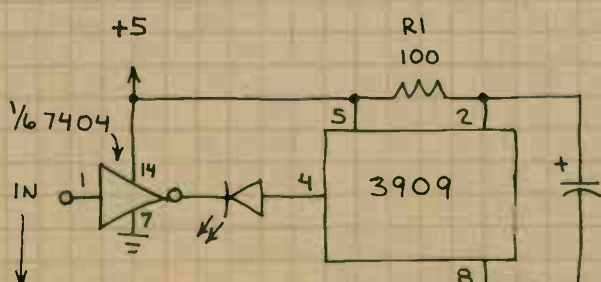


TOY ORGAN

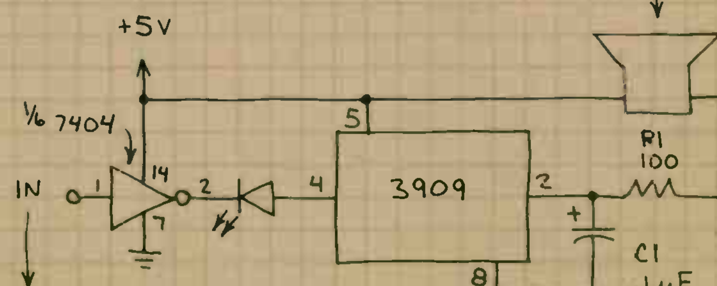


R1 – 3.3K (376 Hz)
R2 – 1.0K (719 Hz)
R3 – 330 (1.73 KHz)
R4 – 150 (2.88 KHz)
R5 – 47 (6.54 KHz)

TTL CONTROLLED 3909



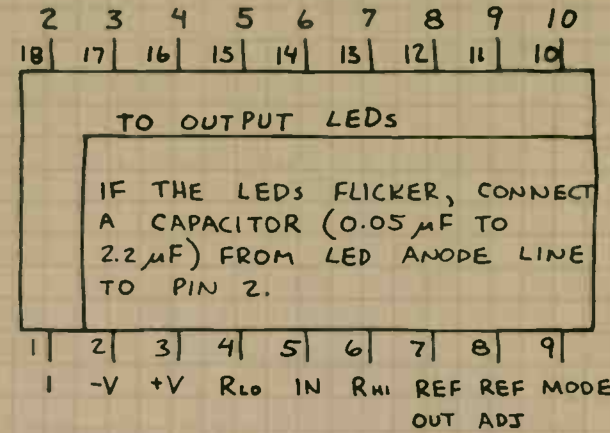
H = FLASH LED
L = INHIBIT

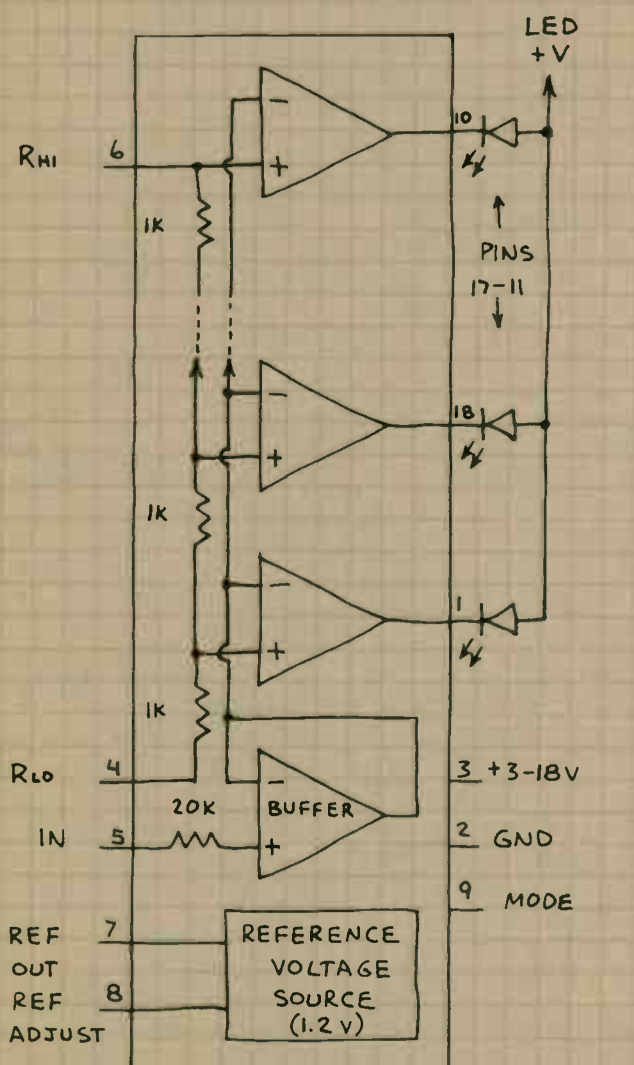


H = TONE + LED GLOWS
L = INHIBIT

DOT/BAR DISPLAY DRIVER
LM3914N

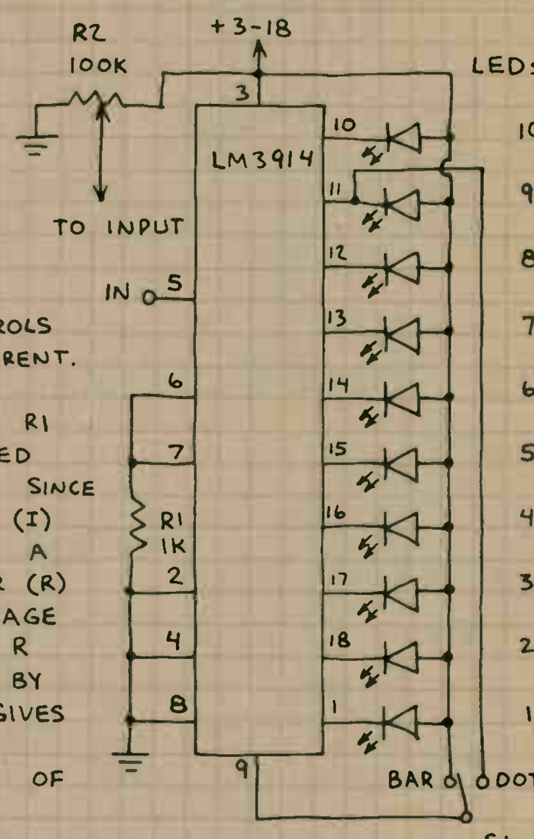
ONE OF THE MOST IMPORTANT CHIPS IN THIS NOTEBOOK. LIGHTS UP TO 10 LEDs (BAR MODE) OR 1-OF-10 LEDs (DOT MODE) IN RESPONSE TO AN INPUT VOLTAGE. CHIP CONTAINS A VOLTAGE DIVIDER AND 10 COMPARATORS THAT TURN ON IN SEQUENCE AS THE INPUT VOLTAGE RISES. HERE'S A SIMPLIFIED VERSION OF THE CIRCUIT:





RHI AND RLO ARE THE ENDS OF THE DIVIDER CHAIN. THE REFERENCE VOLTAGE OUTPUT (REF OUT) IS 1.2-1.3 VOLTS. CONNECT PIN 9 TO PIN 11 FOR DOT MODE OR +V FOR BAR MODE.

DOT/BAR DISPLAY



R1 CONTROLS LED CURRENT. CURRENT THROUGH R1 IS $\frac{1}{10}$ LED CURRENT. SINCE CURRENT (I) THROUGH A RESISTOR (R) IS VOLTAGE ACROSS R DIVIDED BY R, 1K GIVES AN LED CURRENT OF 10 mA.

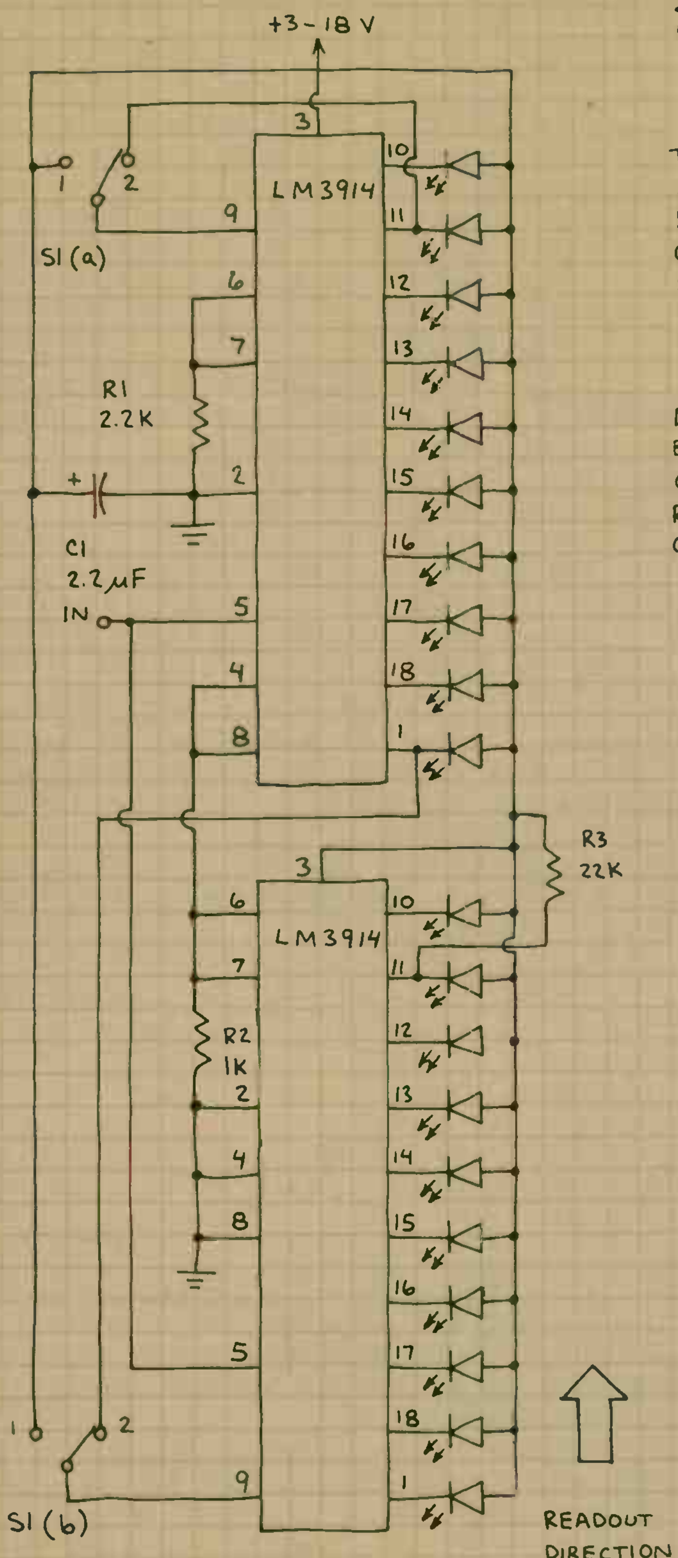
WHEN +V = +3-18 VOLTS, THE READOUT RANGE IS 0.13 — 1.30 VOLTS. TO CHANGE RANGE TO 0.1-1.0 VOLT (0.1 VOLT PER LED), INSERT A 1K POTENTIOMETER BETWEEN PINS 6 AND 7. CONNECT VOLTMETER ACROSS PINS 5 AND 8 AND ADJUST R2 FOR 1 VOLT AT PIN 5. THEN ADJUST 1K POT UNTIL LED 10 GLOWS. REPEAT THIS PROCEDURE FOR 0.1 VOLT AT PIN 5 AND LED 1. OK TO REPLACE THE 1K POT WITH A FIXED RESISTOR OF THE PROPER VALUE.

DOT/BAR DISPLAY DRIVER (CONTINUED)
LM3914N

20-ELEMENT READOUT

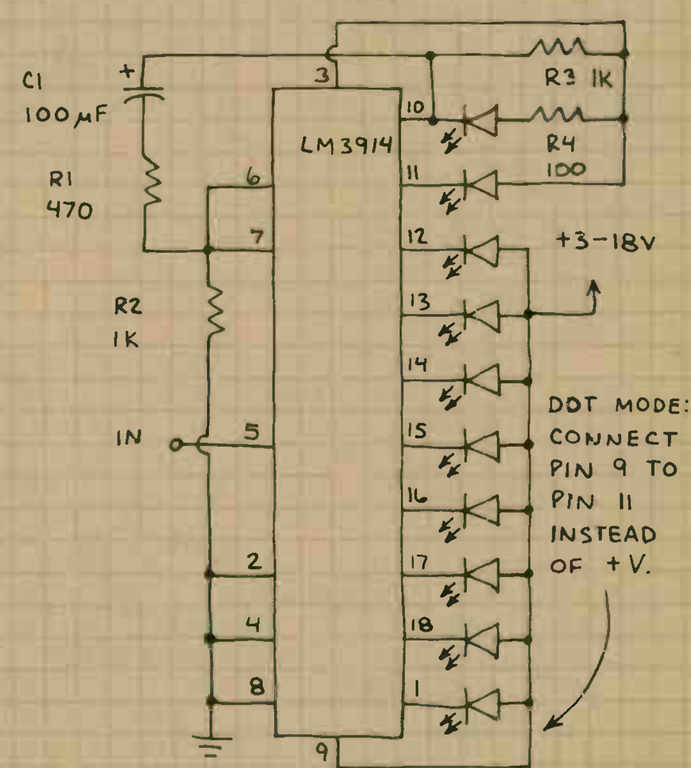
THIS CIRCUIT SHOWS HOW TO CASCADE 2 OR MORE LM3914's. WHEN + V = 5 VOLTS, THE READOUT RANGE IS 0.14 V TO 2.7 V. HIGHEST ORDER LED STAYS ON DURING OVERRANGE. AVOID SUBSTITUTIONS FOR R1, R2 AND R3.

S1 IS THE MODE SWITCH. USE A DPDT TOGGLE. POSITION 1 SELECTS BAR AND POSITION 2 SELECTS DOT. OMIT S1 IF ONLY ONE MODE IS REQUIRED. SIMPLY WIRE IN THE CORRECT CONNECTIONS.



THE CIRCUITS ON THIS PAGE ARE ADAPTED FROM NATIONAL SEMICONDUCTOR'S LM3914 LITERATURE. BOTH WORK WELL.

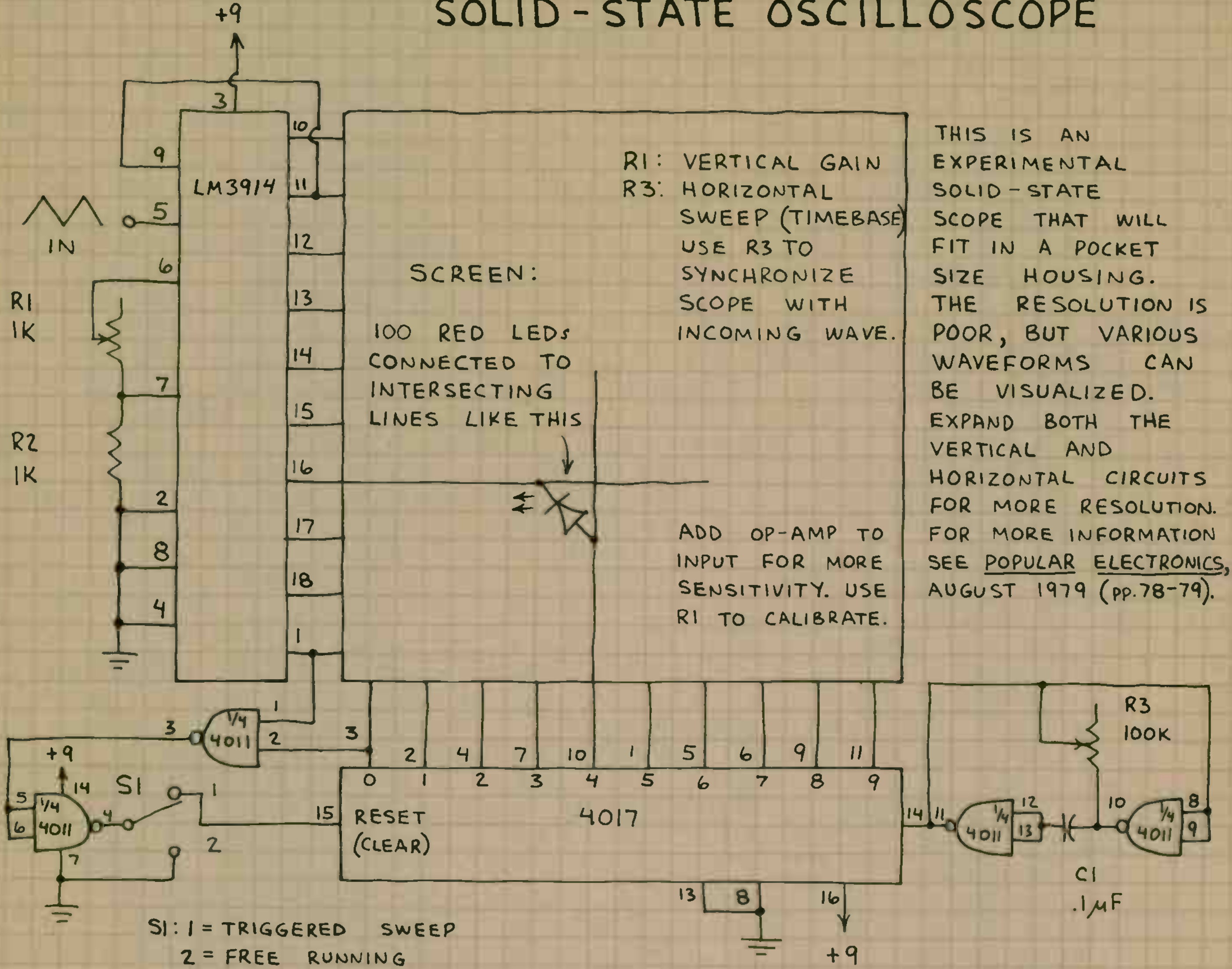
FLASHING BAR READOUT



WHEN ALL 10 LEDs ARE ON THE DISPLAY FLASHES. OTHERWISE THE LEDs DO NOT FLASH. INCREASE C1 TO SLOW FLASH RATE.

DOT/BAR DISPLAY DRIVER (CONTINUED)
LM3914N

SOLID-STATE OSCILLOSCOPE

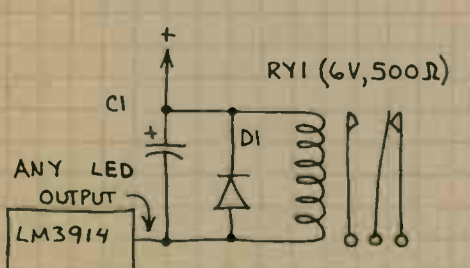


THIS IS AN EXPERIMENTAL SOLID-STATE SCOPE THAT WILL FIT IN A POCKET SIZE HOUSING. THE RESOLUTION IS POOR, BUT VARIOUS WAVEFORMS CAN BE VISUALIZED. EXPAND BOTH THE VERTICAL AND HORIZONTAL CIRCUITS FOR MORE RESOLUTION. FOR MORE INFORMATION SEE <u>POPULAR ELECTRONICS</u>, AUGUST 1979 (pp. 78-79).

S1: 1 = TRIGGERED SWEEP
2 = FREE RUNNING

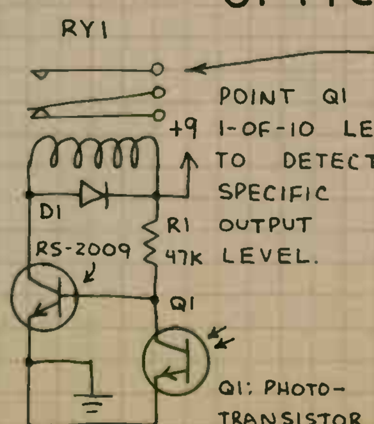
USING THE LM3914 AS A CONTROLLER:

RELAY

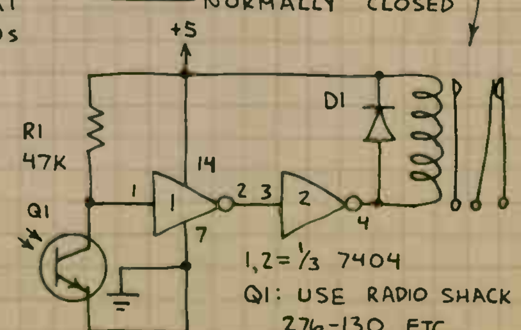


C1 — 47μF (PREVENTS CHATTER)
D1 — 1N914
RY1 — RADIO SHACK 275-004

OPTICAL COUPLING

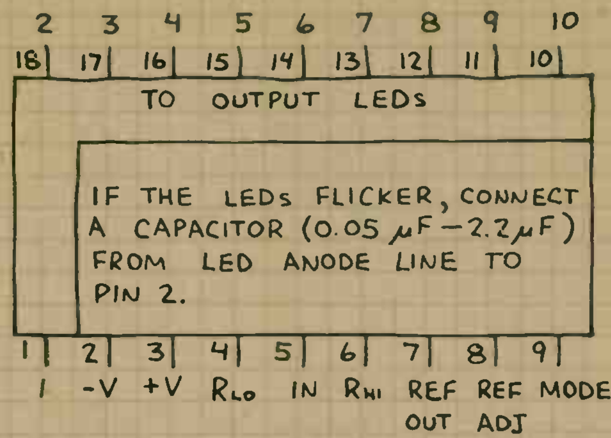


RELAY: NORMALLY OPEN
NORMALLY CLOSED



1,2 = 1/3 7404
Q1: USE RADIO SHACK 276-130, ETC.

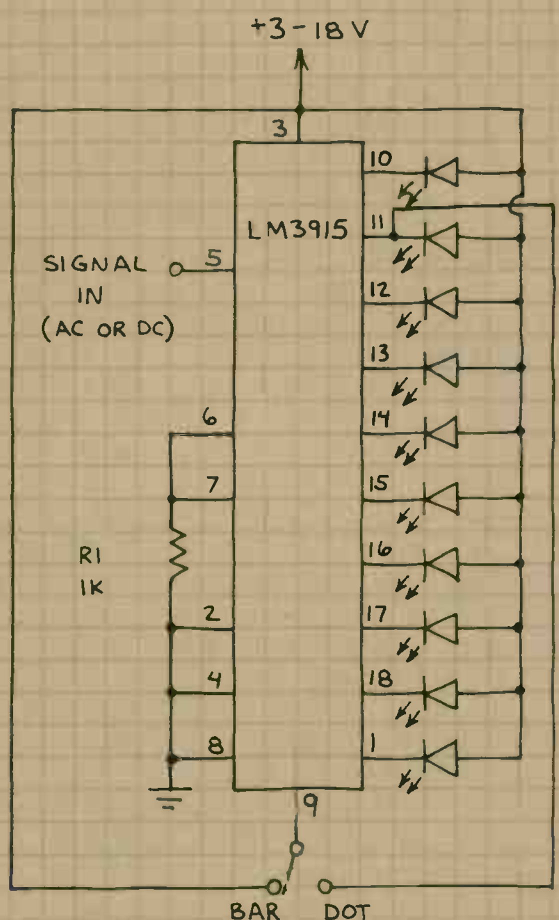
DOT/BAR DISPLAY DRIVER
LM3915N



LOGARITHMIC VERSION OF THE LM3914N. THE LM3914N USES A STRING OF 1K RESISTORS AS A VOLTAGE DIVIDER WITH LINEARILY SCALED DIVISIONS. THE VOLTAGE DIVIDER RESISTORS OF THE LM3915N ARE SCALED TO GIVE A -3dB INTERVAL FOR EACH OUTPUT. THIS CHIP IS IDEAL FOR VISUALLY MONITORING THE AMPLITUDE OF AUDIO SIGNALS.

SEE LM3914N FOR EXPLANATION OF PIN FUNCTIONS.

0 TO -27 dB DOT/BAR DISPLAY



LED DISPLAY

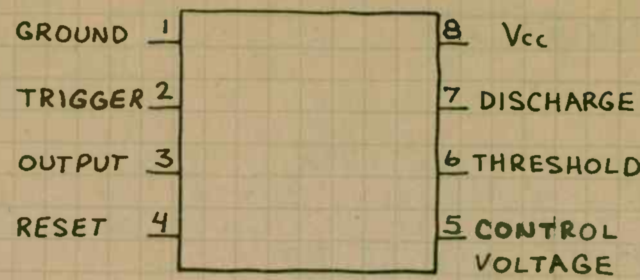
		BAR MODE*
0 dB	(FULLSCALE OR FS)	● ● ● ● ● ● ● ● ● ●
-3 dB	(.707 FS)	● ● ● ● ● ● ● ● ● ○
-6 dB	(.500 FS)	● ● ● ● ● ● ● ● ○ ○
-9 dB	(.354 FS)	● ● ● ● ● ● ● ○ ○ ○
-12 dB	(.250 FS)	● ● ● ● ● ● ○ ○ ○ ○
-15 dB	(.177 FS)	● ● ● ● ● ○ ○ ○ ○ ○
-18 dB	(.125 FS)	● ● ● ● ○ ○ ○ ○ ○ ○
-21 dB	(.088 FS)	● ● ● ○ ○ ○ ○ ○ ○ ○
-24 dB	(.062 FS)	● ● ○ ○ ○ ○ ○ ○ ○ ○
-27 dB	(.044 FS)	● ○ ○ ○ ○ ○ ○ ○ ○ ○

* OK TO USE DOT MODE.

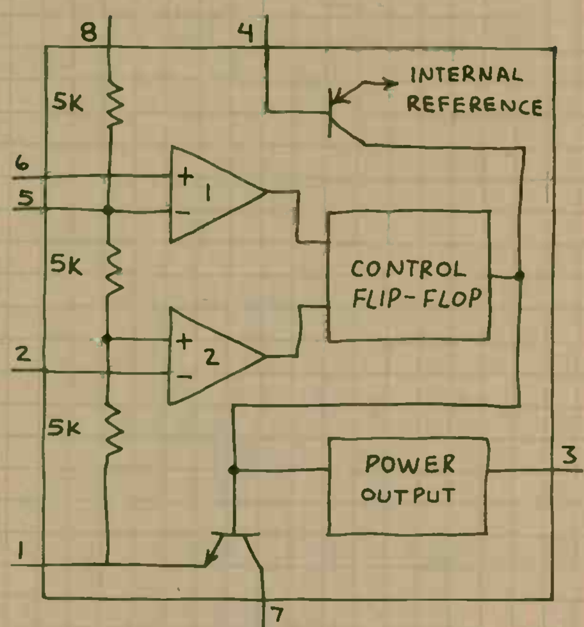
THE INPUT SIGNAL CAN BE CONNECTED DIRECTLY TO PIN 5 WITHOUT RECTIFICATION, LIMITING OR AC COUPLING. SEE THE LM3914N FOR MORE IDEAS AND TIPS.

TIMER
555

THE FIRST AND STILL THE MOST POPULAR IC TIMER CHIP. OPERATES AS A ONE-SHOT TIMER OR AN ASTABLE MULTIVIBRATOR. THE 556 IS TWO 555 CIRCUITS ON ONE CHIP.

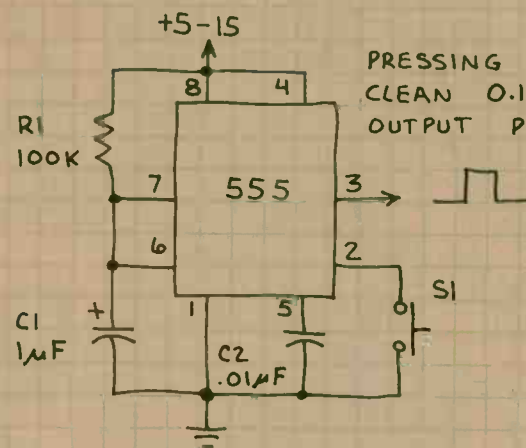


555 EQUIVALENT CIRCUIT



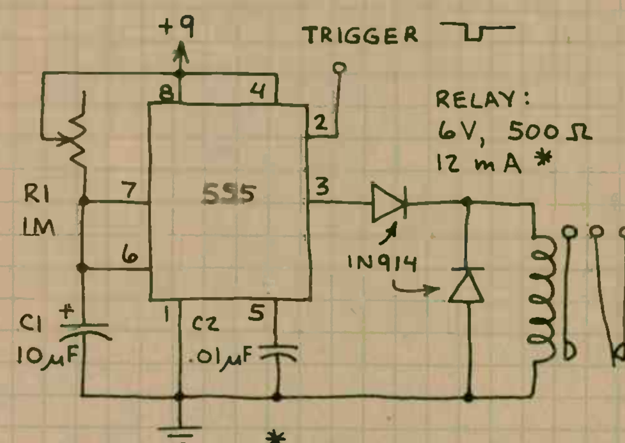
1 AND 2 ARE COMPARATORS. CIRCUIT CAN BE MADE FROM INDIVIDUAL PARTS AS SHOWN... BUT 555 IS MUCH SIMPLER.

BOUNCELESS SWITCH



PRESSING S1 GIVES CLEAN 0.1 SECOND OUTPUT PULSE.

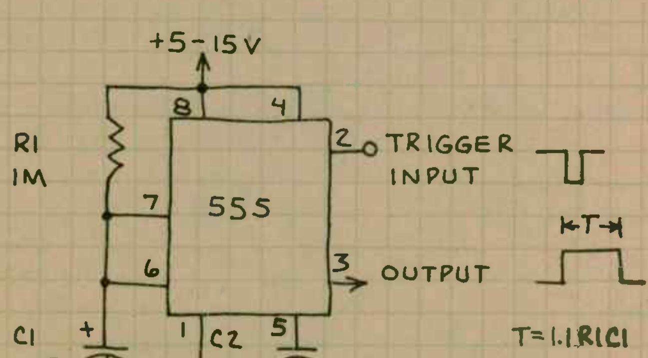
TIMER PLUS RELAY



*RADIO SHACK 275-004

VALUES OF R1 AND C1 SHOWN WILL PULL RELAY IN FOR UP TO ABOUT 11 SECONDS. USE POINTER KNOB AND PAPER SCALE TO HELP CALIBRATE CIRCUIT. USES INCLUDE DARKROOM TIMING. CIRCUIT CAN BE TRIGGERED BY A NEGATIVE PULSE OR WITH A PUSHBUTTON SWITCH ACROSS PINS 1 AND 2.

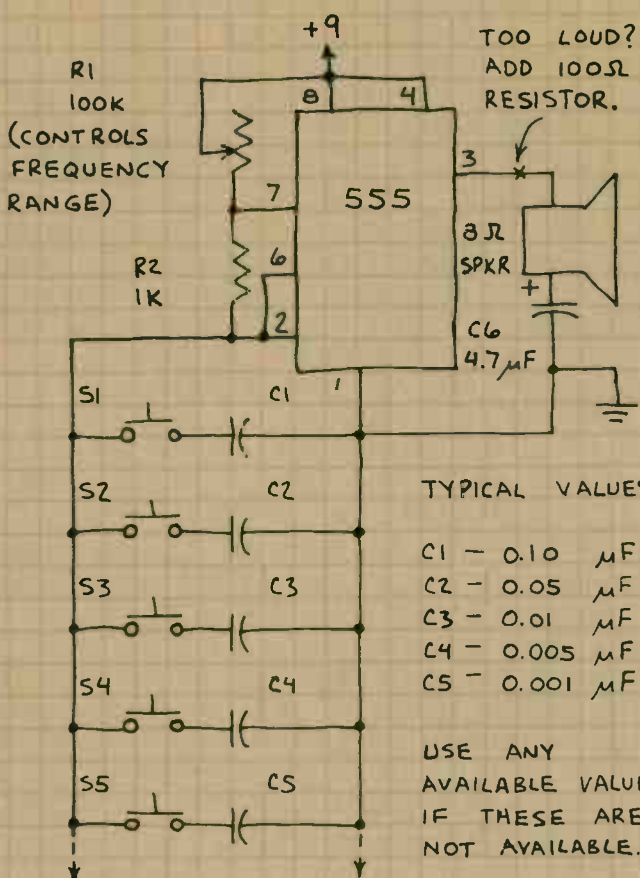
ONE-SHOT TIMER



VALUES SHOWN GIVE 1 SECOND OUTPUT PULSE.

TIMER (CONTINUED)
555

TOY ORGAN



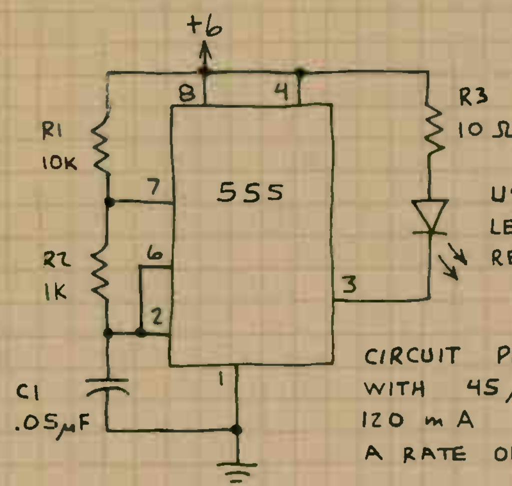
TYPICAL VALUES:

C1 – 0.10 μF
C2 – 0.05 μF
C3 – 0.01 μF
C4 – 0.005 μF
C5 – 0.001 μF

USE ANY AVAILABLE VALUES IF THESE ARE NOT AVAILABLE.

ADD ADDITIONAL STAGES IF DESIRED. SWITCHES ARE NORMALLY OPEN PUSHBUTTONS.

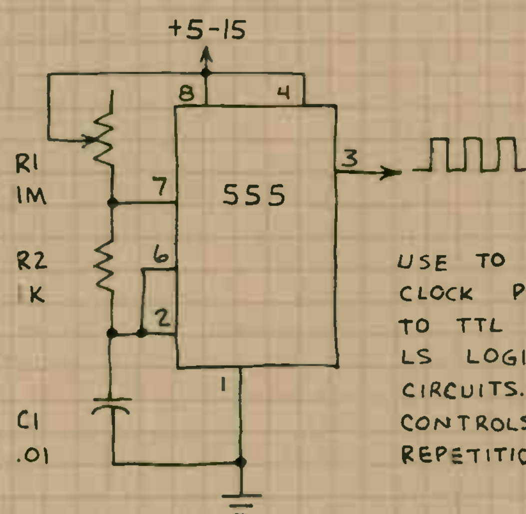
LED TRANSMITTER



USE INFRARED LED FOR BEST RESULTS.

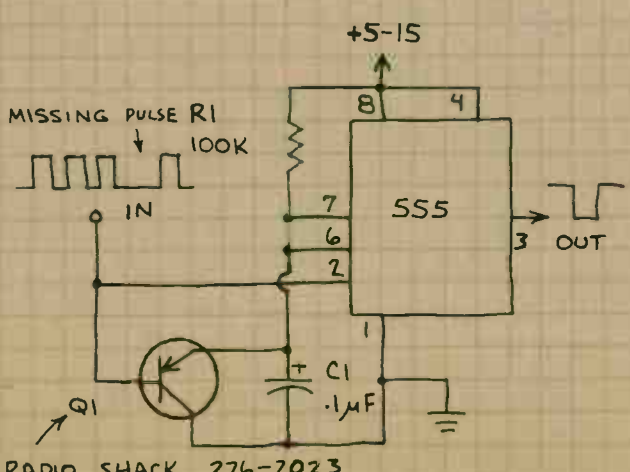
CIRCUIT PULSES LED WITH 45 μSEC LONG, 120 mA PULSES AT A RATE OF 48 KHz.

PULSE GENERATOR



USE TO SUPPLY CLOCK PULSES TO TTL AND LS LOGIC CIRCUITS. R1 CONTROLS PULSE REPETITION RATE.

MISSING PULSE DETECTOR

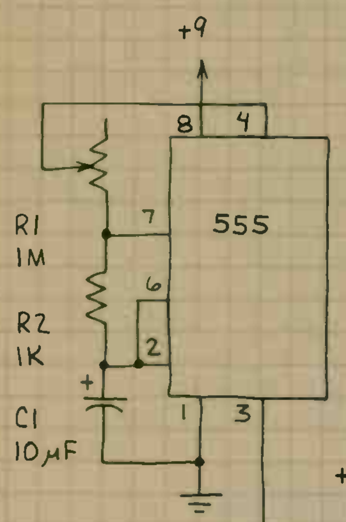
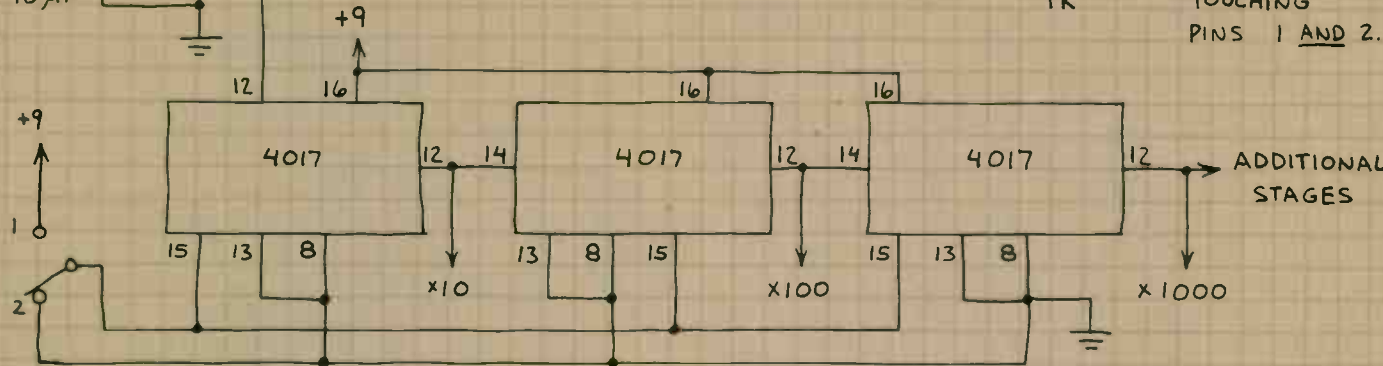


THIS CIRCUIT IS A ONE-SHOT THAT IS CONTINUALLY RETRIGGERED BY INCOMING PULSES. A MISSING OR DELAYED PULSE THAT PREVENTS RETRIGGERING BEFORE A TIMING CYCLE IS COMPLETE CAUSES PIN 3 TO GO LOW UNTIL A NEW INPUT PULSE ARRIVES. R1 AND C1 CONTROL RESPONSE TIME. USE IN SECURITY ALARMS, CONTINUITY TESTERS, ETC.

TIMER (CONTINUED)

555

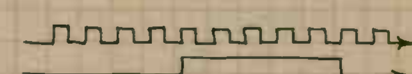
ULTRA-LONG TIME DELAY

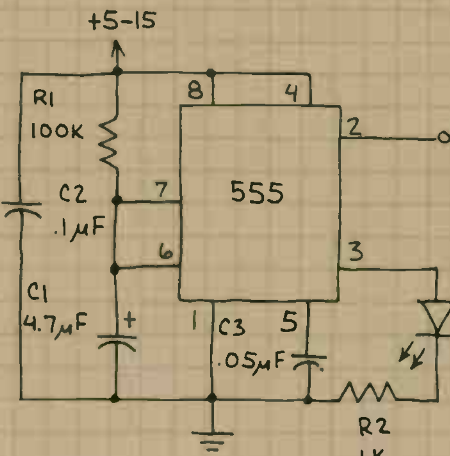
R1 CONTROLS PULSE RATE FROM 555. THIS RATE IS DIVIDED BY THE 4017's TO GIVE ×10, ×100 AND ×1000 DELAYS.

1 = RESET
2 = RUN

TYPICAL OUTPUT: 555 (PIN 3)
4017 (×10 OUTPUT)



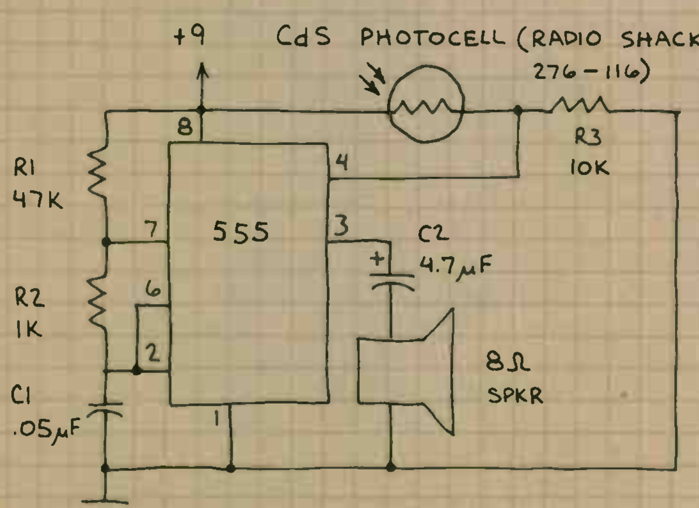
TOUCH SWITCH



TOUCH WIRE (TOUCH AND LED WILL GLOW 1 SECOND)

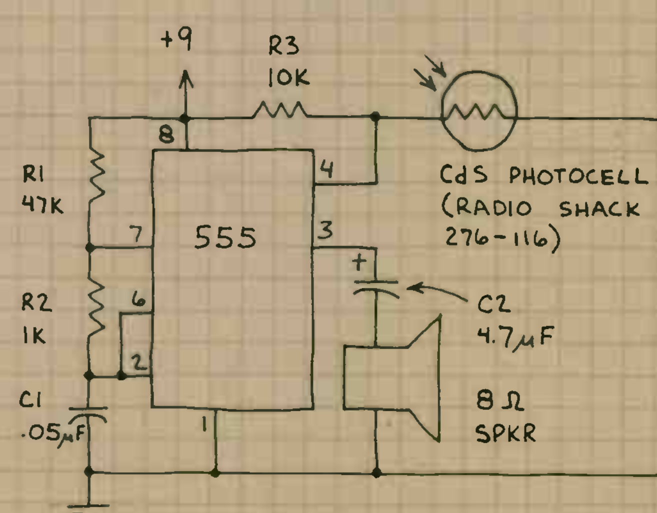
WORKS BEST INDOORS DUE TO STRAY AC FIELD. ELSEWHERE TRY TOUCHING PINS 1 AND 2.

LIGHT DETECTOR



PRODUCES WARNING TONE WHEN LIGHT STRIKES PHOTOCELL. MAKES A GOOD OPEN DOOR ALARM FOR REFRIGERATOR OR FREEZER.

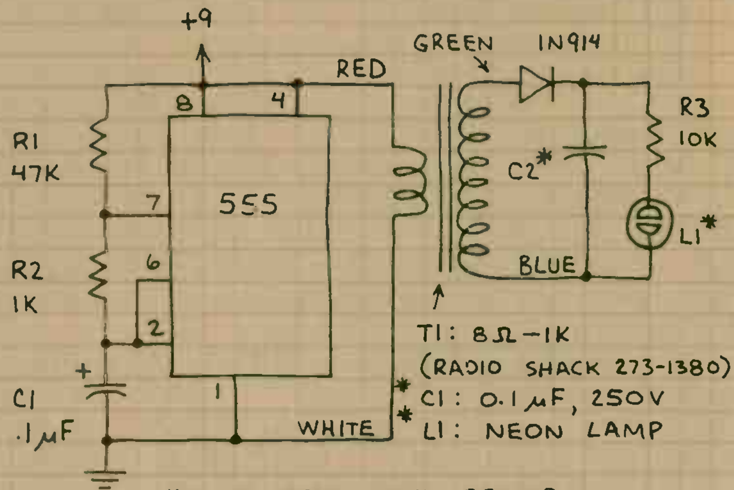
DARK DETECTOR



SILENT WHEN LIGHT STRIKES PHOTOCELL. REMOVE LIGHT AND TONE SOUNDS. FASTER RESPONSE THAN ADJACENT CIRCUIT.

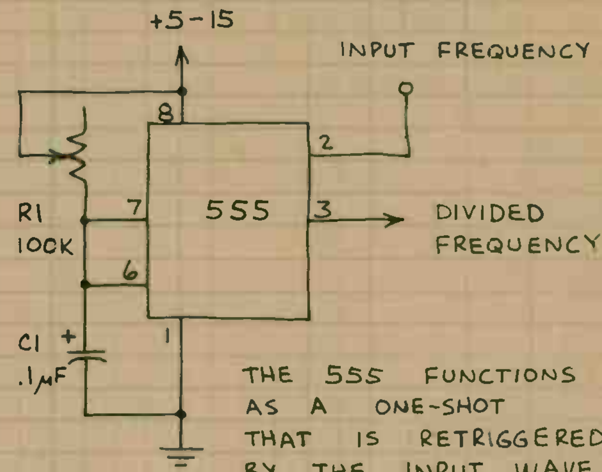
TIMER (CONTINUED)
555

NEON LAMP POWER SOURCE



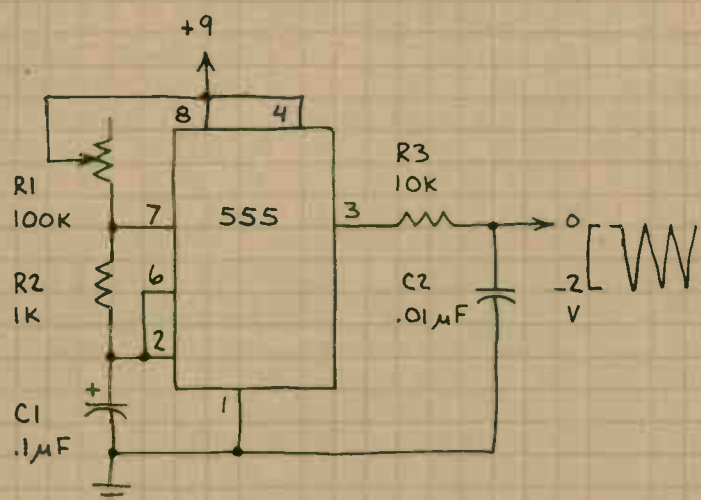
WORKS BEST WITH BETTER QUALITY NEON LAMPS. REDUCE R1 SLIGHTLY FOR MORE OUTPUT VOLTAGE.

FREQUENCY DIVIDER



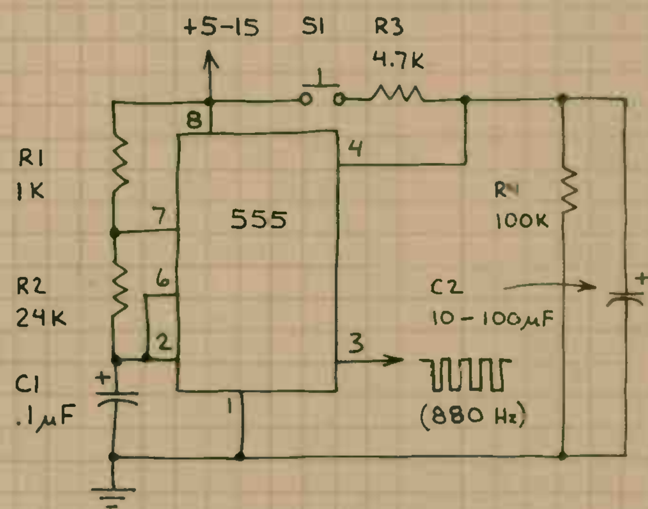
THE 555 FUNCTIONS AS A ONE-SHOT THAT IS RETRIGGERED BY THE INPUT WAVE. WAVES ARRIVING DURING THE TIMING CYCLE ARE IGNORED.

TRIANGLE WAVE GENERATOR



ADJUST R1 TO PROVIDE UP TO 10 KHz. OUTPUT FREQUENCY THIS HIGH PRODUCES CLOSELY SPACED TRIANGLE WAVES. THE WAVES ARE SEPARATED AT SLOWER FREQUENCIES (\/‾\/‾\/‾).

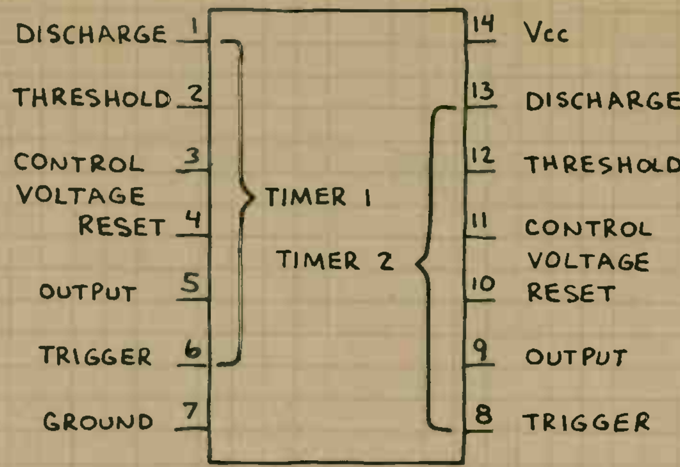
ONE-SHOT TONE BURST



PRESS S1 AND STEADY OUTPUT FREQUENCY APPEARS AT PIN 3. RELEASE S1 AND OUTPUT FREQUENCY CONTINUES UNTIL C2 IS DISCHARGED BY R4. INCREASE C2 (OR R4) TO INCREASE LENGTH OF THE BURST. CHANGE FREQUENCY OF TONE BURST VIA R2 OR C1.

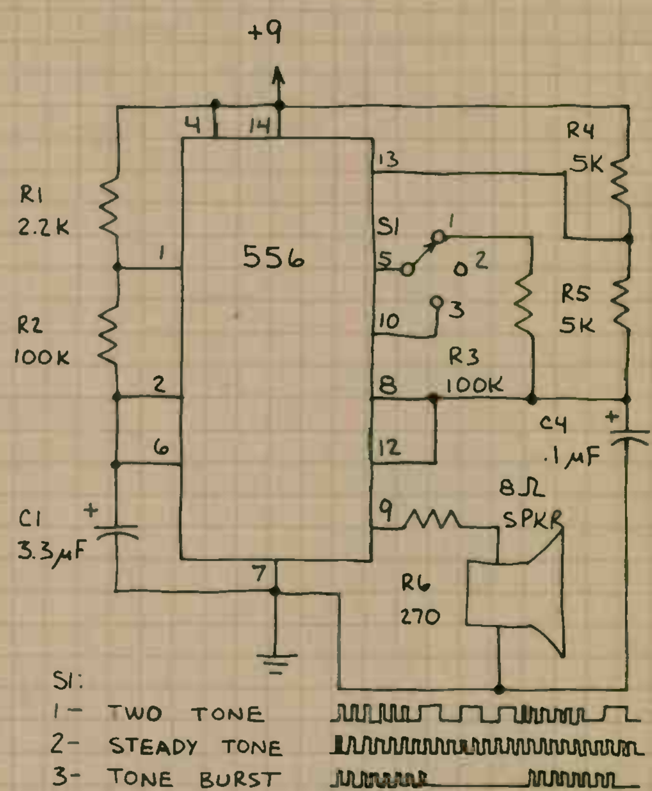
DUAL TIMER
556

CONTAINS TWO INDEPENDENT TIMERS ON A SINGLE CHIP. BOTH TIMERS ARE IDENTICAL TO THE 555. ALL THE APPLICATION CIRCUITS CAN ALSO BE BUILT WITH TWO 555's. THIS PIN CROSS REFERENCE WILL SIMPLIFY SUBSTITUTING TWO 555's FOR A 556 OR HALF A 556 FOR A 555:

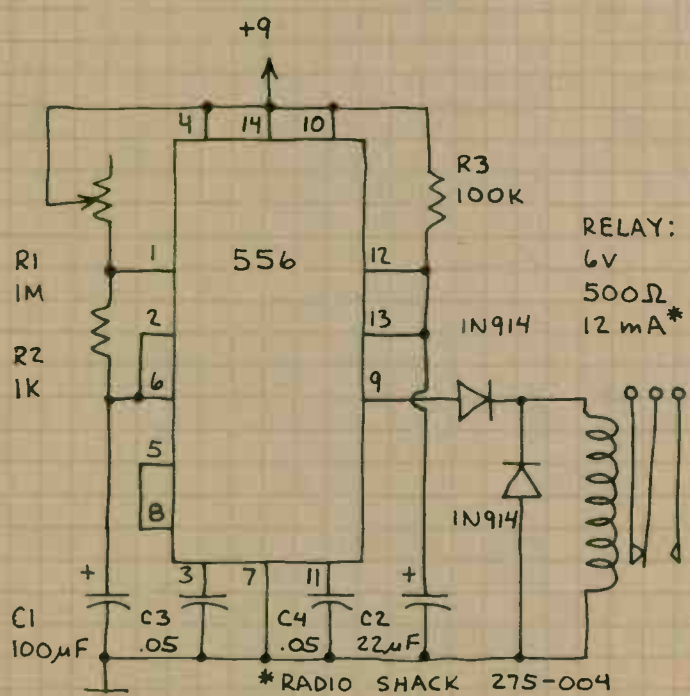


FUNCTION	555	556(1)	556(2)
GROUND	1	7	7
TRIGGER	2	6	8
OUTPUT	3	5	9
RESET	4	4	10
CONTROL V.	5	3	11
THRESHOLD	6	2	12
DISCHARGE	7	1	13
Vcc	8	14	14

3-STATE TONE SOURCE

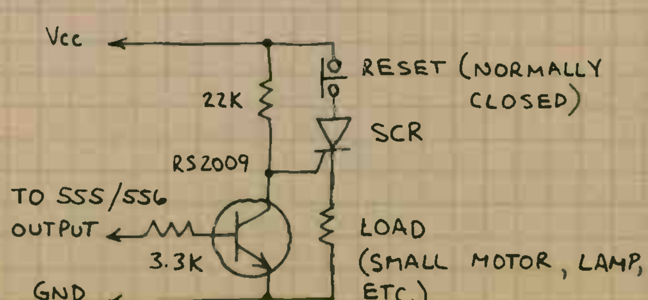


INTERVAL TIMER



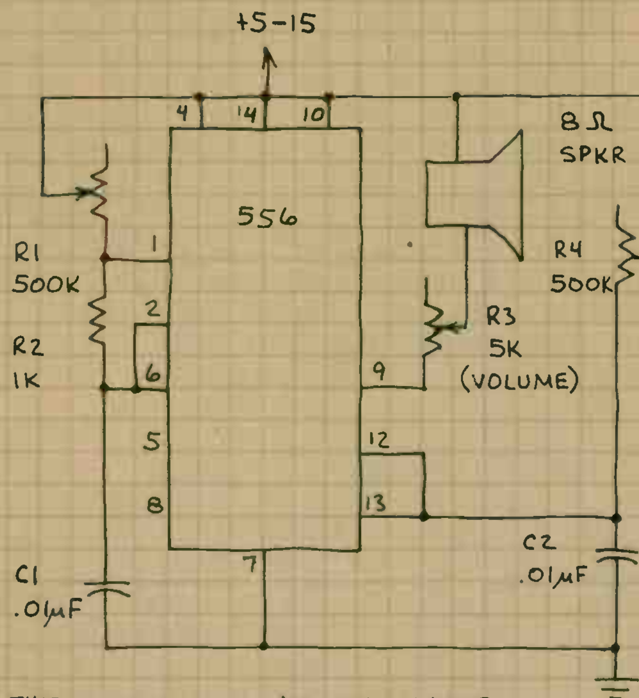
TIMER 1 IS CONNECTED AS ASTABLE OSCILLATOR. TIMER 2 IS A ONE-SHOT RELAY DRIVER. 1 FIRES 2 ONCE EACH CYCLE. 2 PULLS RELAY IN FOR 3-5 SECONDS.

555/556 SCR OUTPUT



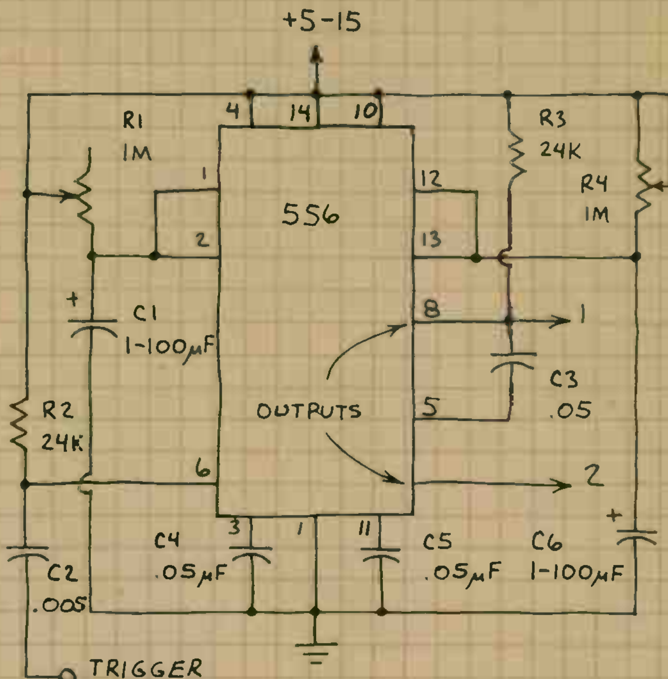
DUAL TIMER (CONTINUED)
556

SOUND SYNTHESIZER



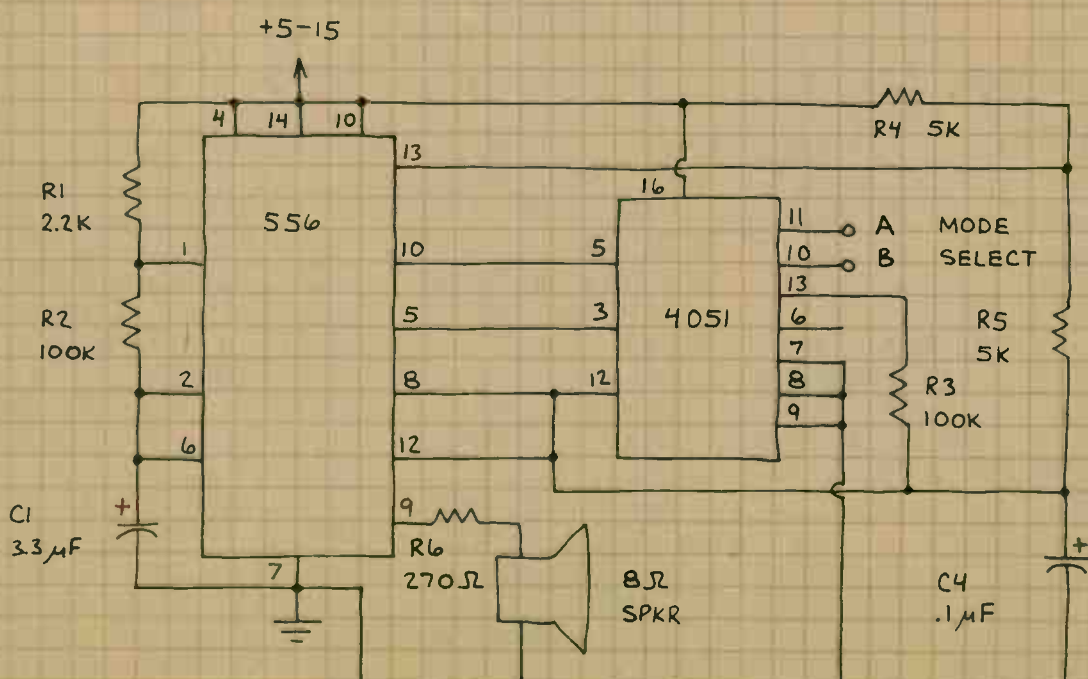
THIS CIRCUIT IS AN OSCILLATOR FOLLOWED BY A FREQUENCY DIVIDER. ADJUST R1 AND R4 FOR VERY UNUSUAL SOUND EFFECTS.

TWO-STAGE TIMER



BOTH TIMERS ARE IN ONE-SHOT MODE. GROUNDING THE TRIGGER INPUT INITIATES THE FIRST TIMER'S CYCLE TIME. THE SECOND TIMER'S CYCLE BEGINS AFTER THE FIRST IS COMPLETE.

PROGRAMMABLE 4-STATE TONE GENERATOR



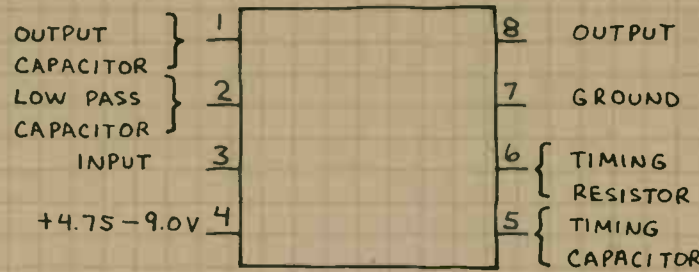
MODE SELECT

B A	OUTPUT
L L	TWO-TONE
L H	STEADY
H L	BURST
H H	METRONOME

L = GND
H = +5-15 (V_{DD})

CHANGE C1 AND C4 TO ALTER THE OUTPUT TONES.

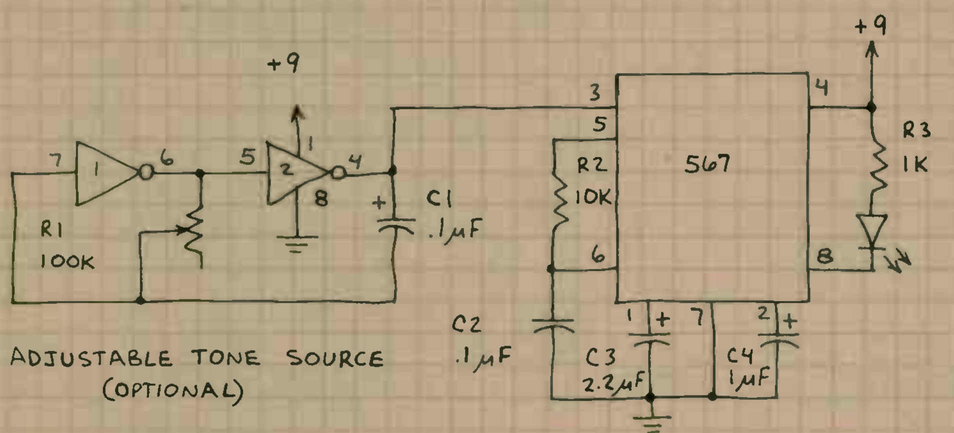
TONE DECODER
567



CONTAINS A PHASE-LOCKED LOOP. PIN 8 GOES LOW WHEN THE INPUT FREQUENCY MATCHES THE CHIP'S CENTER FREQUENCY (f_o). THE LATTER FREQUENCY IS SET BY THE TIMING RESISTOR AND CAPACITOR (R AND C) AND IS $(1.1) \div (RC)$. R SHOULD BE BETWEEN 2K–20K. THE 567 CAN BE ADJUSTED TO DETECT ANY INPUT BETWEEN 0.01 Hz TO 500 kHz. NOTE: 1 SECOND OR MORE MAY BE REQUIRED FOR THE 567 TO LOCK ON TO LOW FREQUENCY INPUTS! SEE THIS CHIP'S SPECIFICATIONS FOR MORE INFORMATION.

THE VALUE IN MICROFARADS OF THE LOW PASS CAPACITOR SHOULD BE n / f_o WHERE n RANGES BETWEEN 1300 (FOR UP TO 14% f_o DETECTION BANDWIDTH) TO 62,000 (UP TO 2% f_o DETECTION BANDWIDTH). THE OUTPUT CAPACITOR SHOULD HAVE ABOUT TWICE THE CAPACITANCE OF THE LOW PASS FILTER CAPACITOR.

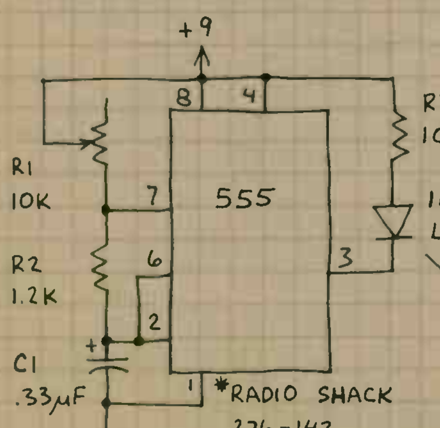
BASIC TONE DETECTOR CIRCUIT



THIS CIRCUIT IS HANDY FOR LEARNING TONE DECODER BASICS. THE 567 PORTION CAN BE USED IN MANY DIFFERENT APPLICATIONS (SEE BELOW). THE PREDICTED f_o IS 1.1 KHz. THE TEST CIRCUIT f_o WAS 1.3 KHz.

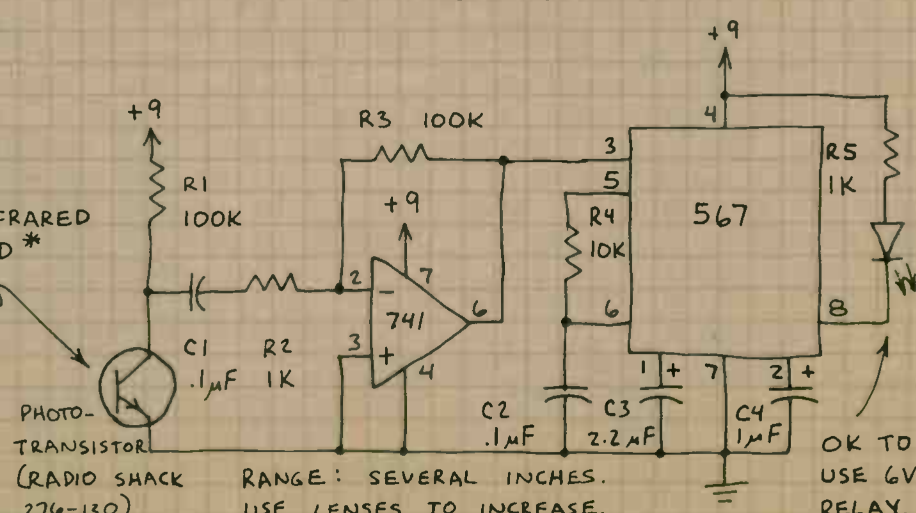
INFRARED REMOTE CONTROL SYSTEM

TRANSMITTER



ADJUST R1 UNTIL RECEIVER LED GLOWS.

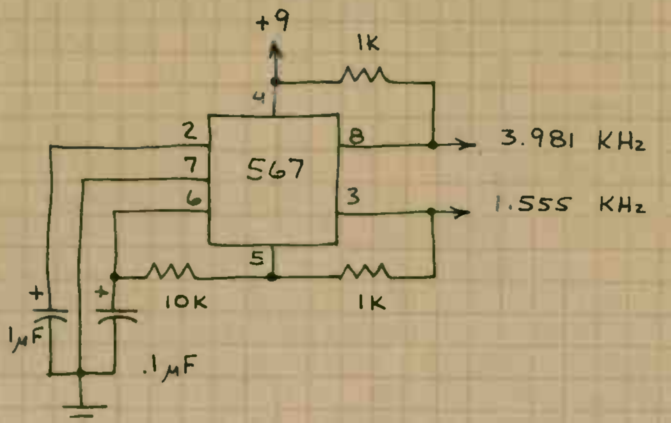
RECEIVER



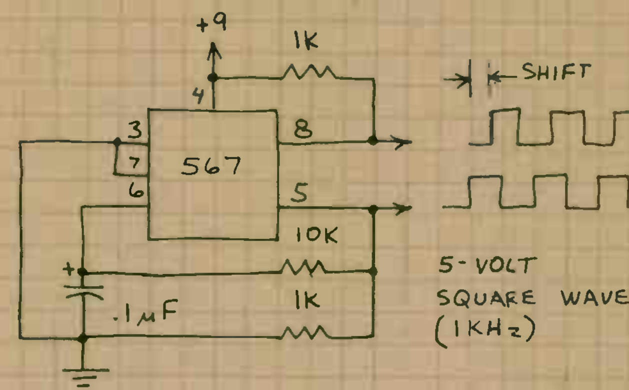
RANGE: SEVERAL INCHES. USE LENSES TO INCREASE.

TONE DECODER (CONTINUED)
567

2-FREQUENCY OSCILLATOR



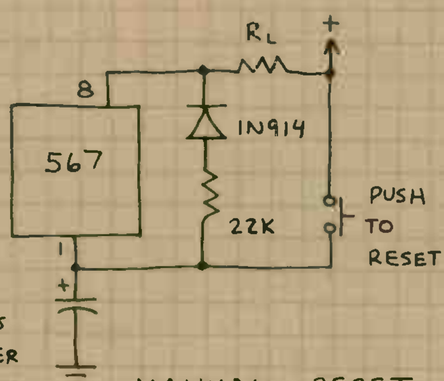
2-PHASE OSCILLATOR



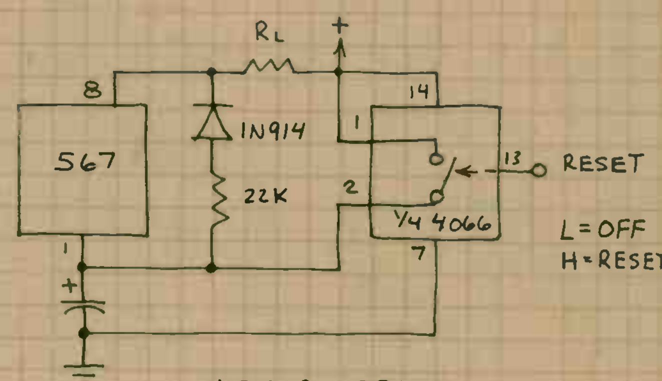
LATCHING THE 567 OUTPUT *

BOTH CIRCUITS SHOW ONLY THE LATCH COMPONENTS. R_L IS THE LOAD (LED, RELAY, ETC.).

* OUTPUT STAYS ON EVEN AFTER INPUT TONE IS REMOVED.

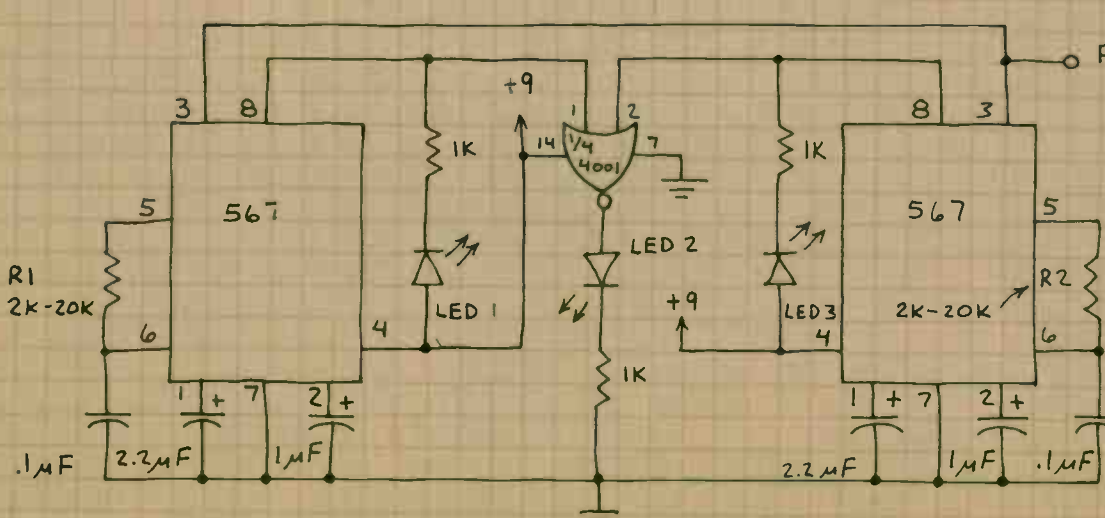


MANUAL RESET



LOGIC RESET

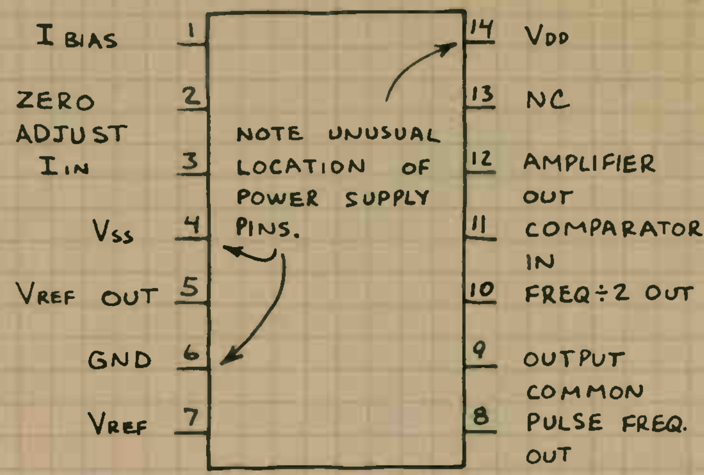
NARROW BAND FREQUENCY DETECTOR



ADJUST R1 AND R2 TO RESPOND TO CLOSELY SPACED FREQUENCIES. LEDs 1 AND 3 WILL GLOW IF FREQUENCY IS HIGH OR LOW. LED 2 WILL GLOW WHEN THE INPUT FREQUENCY IS CENTERED

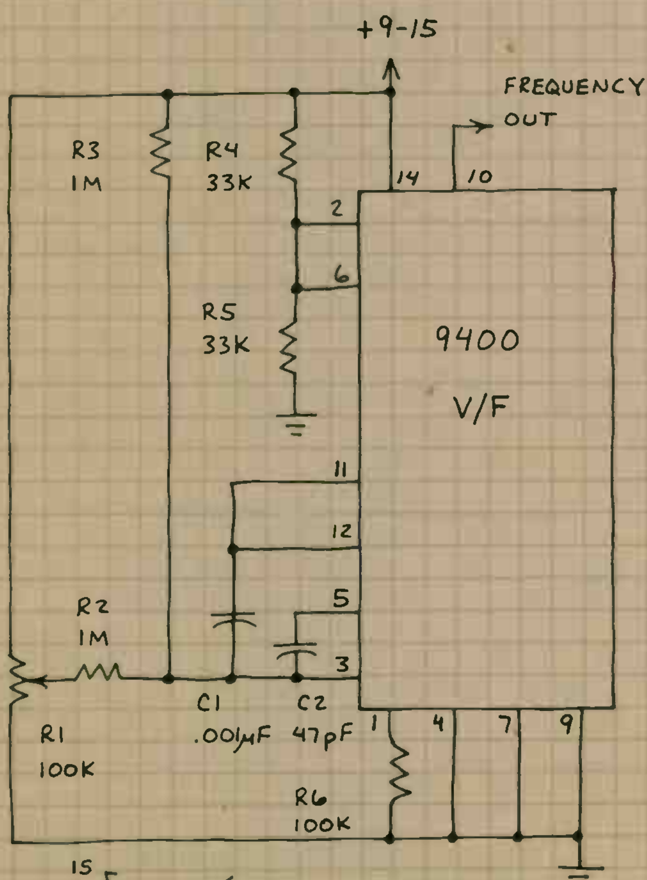
VOLTAGE-TO-FREQUENCY FREQUENCY-TO-VOLTAGE CONVERTER 9400 (276-1790)

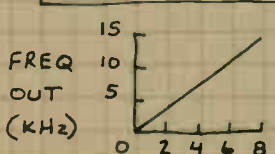
IN VOLTAGE-TO-FREQUENCY (V-F) MODE, AN INPUT VOLTAGE WHICH HAS BEEN CONVERTED INTO A CURRENT BY A RESISTOR AT PIN 3 IS TRANSFORMED INTO A PROPORTIONAL FREQUENCY. IN FREQUENCY-TO-VOLTAGE MODE A FREQUENCY AT PIN 11 IS CONVERTED INTO A PROPORTIONAL VOLTAGE. THIS CHIP CAN BE OPERATED FROM A SINGLE OR DUAL POLARITY POWER SUPPLY.



CAUTION: THIS CHIP INCORPORATES BOTH BIPOLAR AND CMOS CIRCUITRY. THEREFORE CMOS HANDLING PRECAUTIONS MUST BE FOLLOWED TO AVOID PERMANENT DAMAGE.

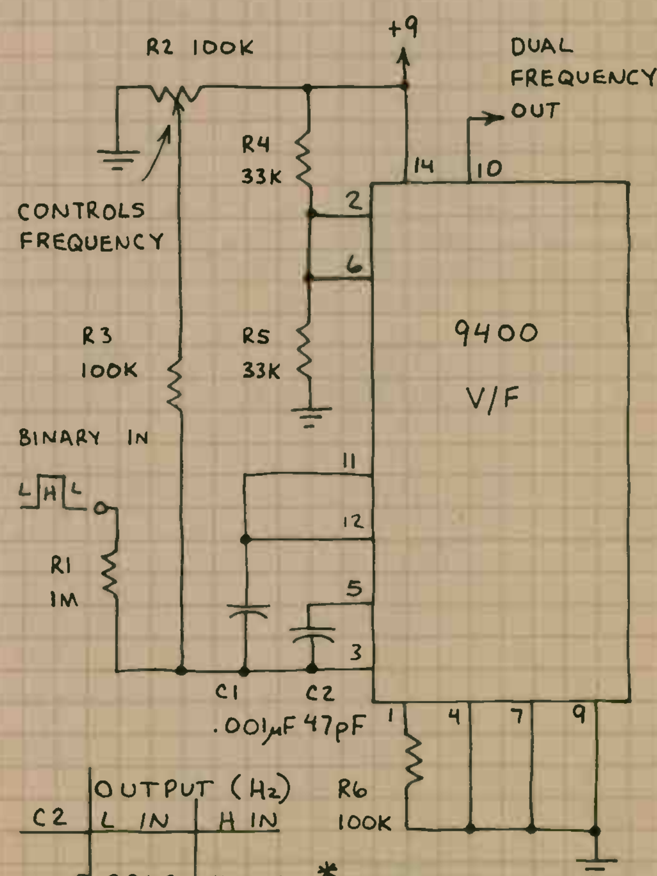
BASIC V/F CONVERTER





R1- OPTIONAL (USE TO SUPPLY INPUT VOLTAGE DURING TESTS).

FSK* DATA TRANSMITTER



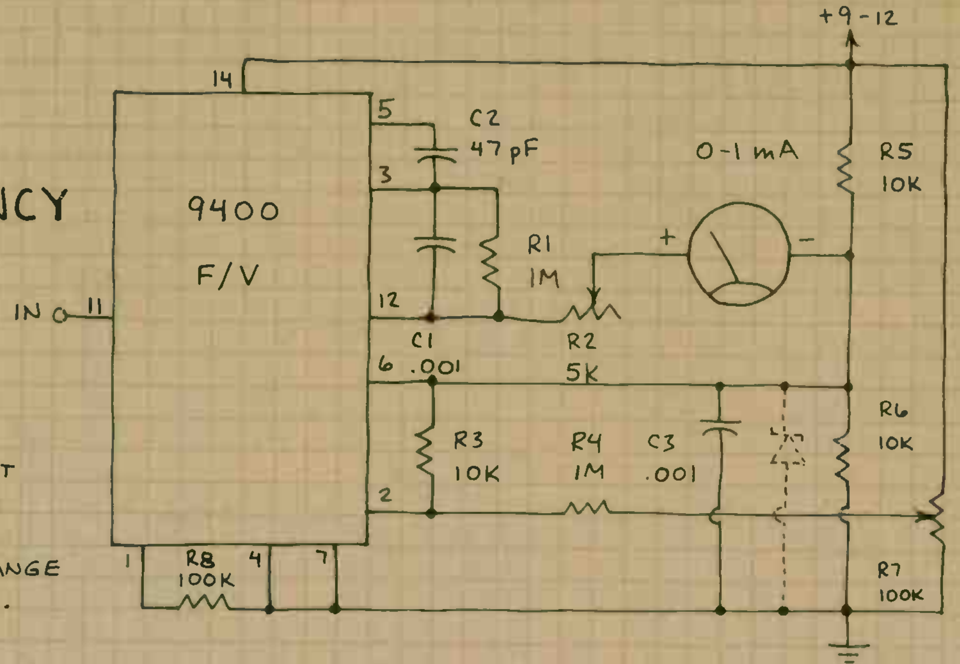
C2	OUTPUT (Hz) L IN	H IN
47pF	3943	17,671
.1µF	1000	1665

R2 CONTROLS OUTPUT.

*FREQUENCY SHIFT KEYING. USE TO SEND BINARY OVER WIRE OR RADIO.

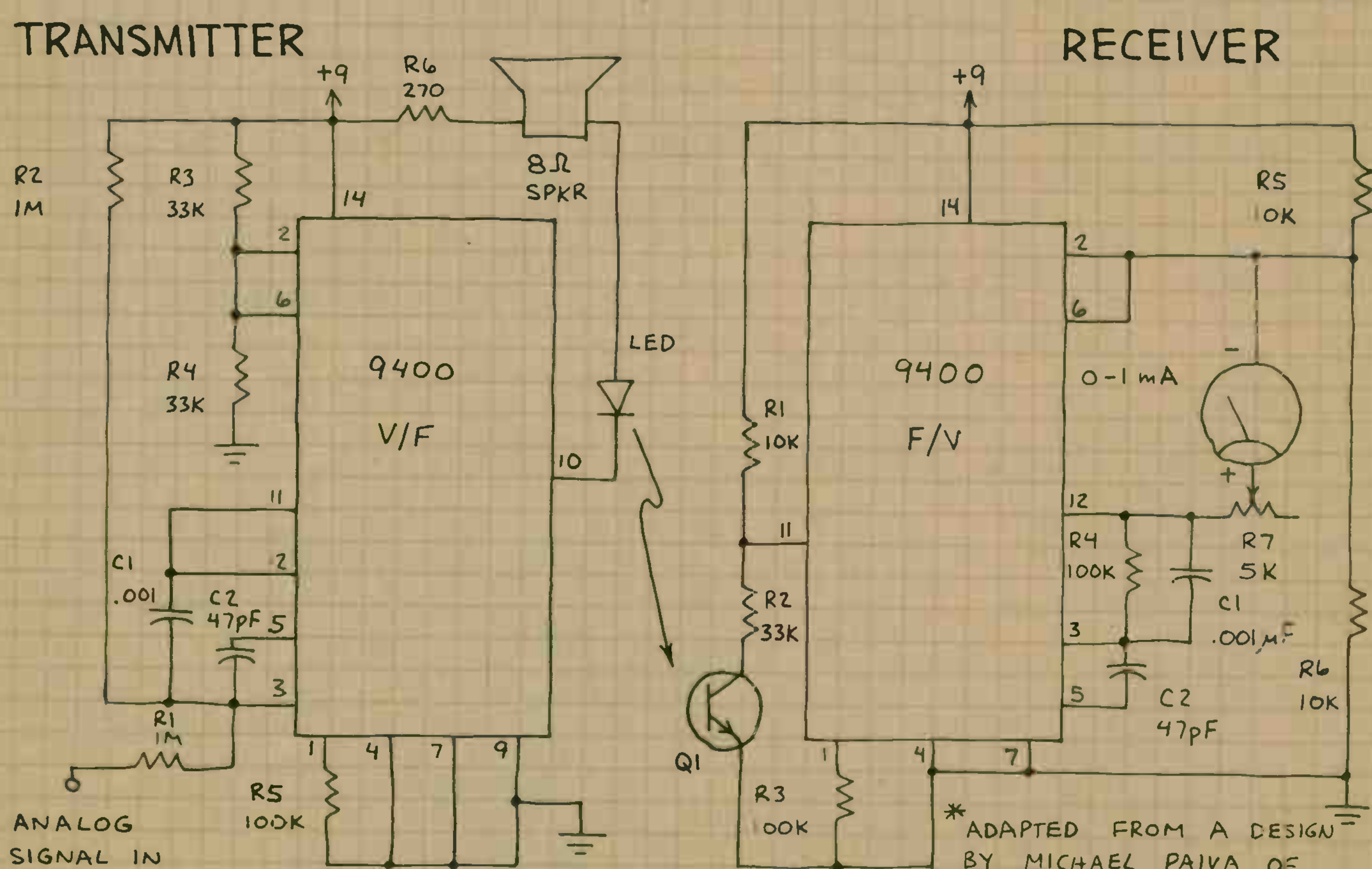
VOLTAGE-TO-FREQUENCY (CONTINUED)
FREQUENCY-TO-VOLTAGE CONVERTER
9400

AUDIO FREQUENCY METER



INPUT FREQUENCY MUST CROSS 0 VOLT. WORKS UP TO 25 KHz. R7 IS ZERO ADJUST FOR METER. ADJUST R5 TO GIVE MAXIMUM READING AT 25 KHz IN. FOR MORE STABILITY, CHANGE R6 TO 6-V ZENER DIODE.

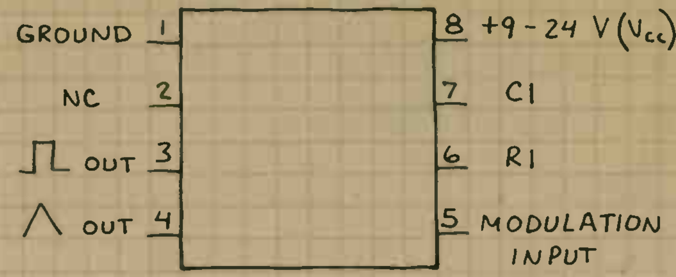
ANALOG DATA TRANSMISSION SYSTEM*



*ADAPTED FROM A DESIGN BY MICHAEL PAIVA OF TELEDYNE.

THE SPKR IS OPTIONAL BUT MAY PROVE HELPFULL DURING INITIAL TESTING. USE AN INFRARED LED (RADIO SHACK 276-142). Q1 CAN BE THE PHOTOTRANSISTOR SUPPLIED WITH THE LED OR RADIO SHACK 276-130. R7 IN THE RECEIVER IS ZERO ADJUST.

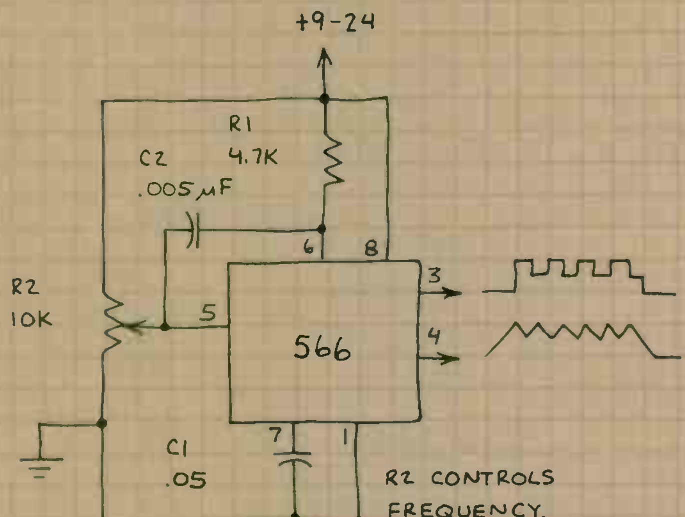
VOLTAGE CONTROLLED OSCILLATOR (VCO) 566



VERY STABLE, EASY TO USE TRIANGLE AND SQUARE WAVE OUTPUTS. R1 AND C1 CONTROL CENTER FREQUENCY. VOLTAGE AT PIN 5 VARIES FREQUENCY. IMPORTANT: OUTPUT WAVE DOES NOT FALL TO 0 VOLT! AT 12 VOLTS (PIN 8), FOR EXAMPLE, TRIANGLE OUTPUT CYCLES BETWEEN +4 AND +6 VOLTS. SQUARE OUTPUT CYCLES BETWEEN +6 AND +11.5 VOLTS.

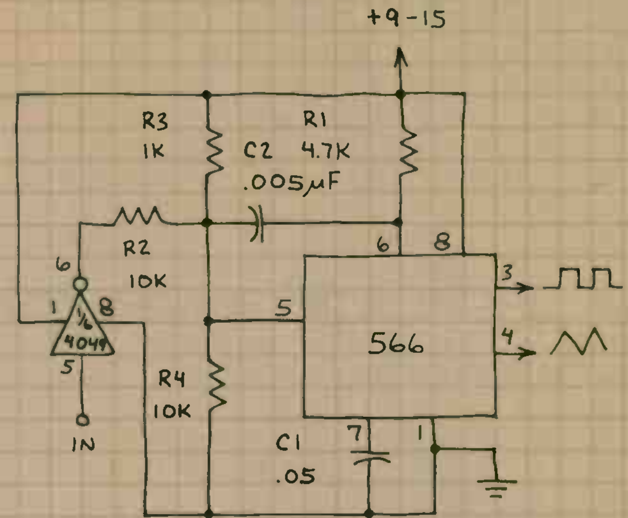
$$\text{CENTER FREQUENCY} = \frac{2\,(V_{cc} - \text{INPUT VOLTS})}{R1\,C1\,V_{cc}}$$

FUNCTION GENERATOR



R2 CONTROLS FREQUENCY.

FSK GENERATOR*



*FSK MEANS FREQUENCY SHIFT KEYING.

IN	OUTPUT
L	1.5 KHz
H	3.0 KHz

V_{cc} = 9 VOLTS.

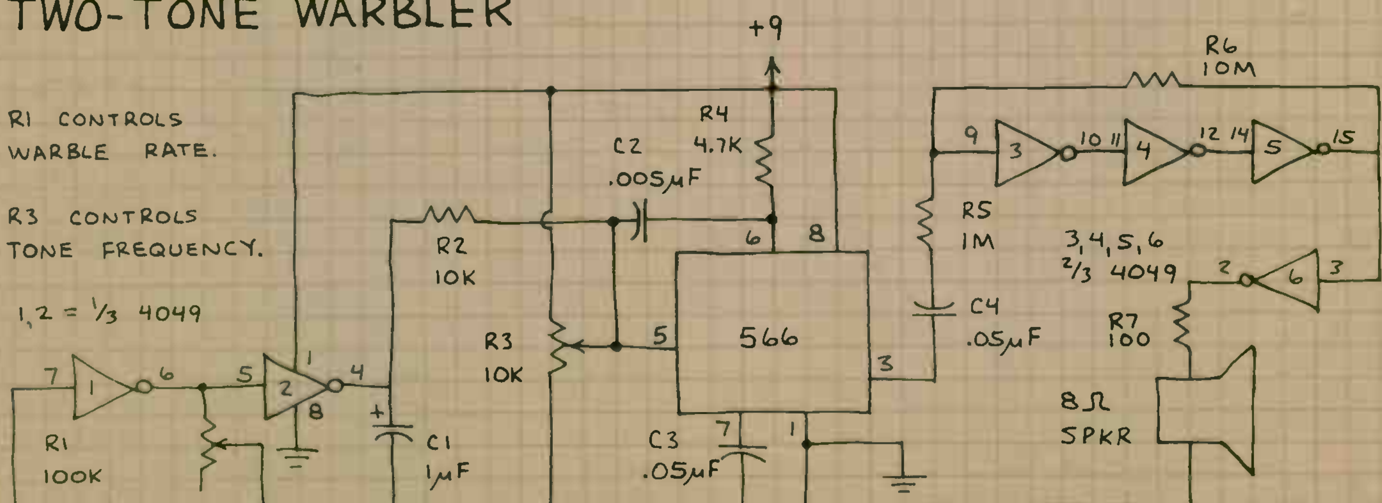
USE TO TRANSMIT BINARY DATA OVER TELEPHONE LINES OR STORE BINARY DATA ON MAGNETIC TAPE.

TWO-TONE WARBLER

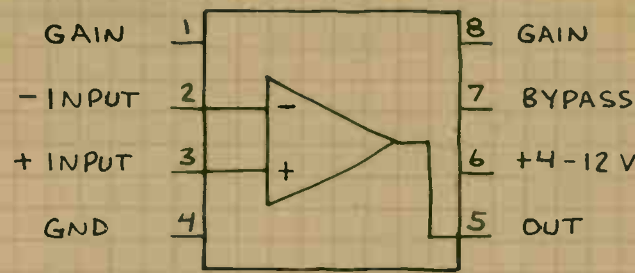
R1 CONTROLS WARBLE RATE.

R3 CONTROLS TONE FREQUENCY.

1,2 = 1/3 4049

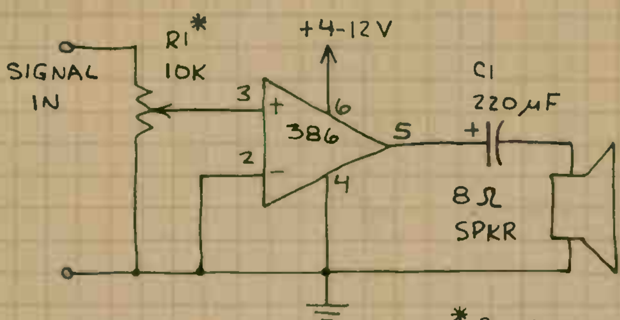


POWER AMPLIFIER
LM386

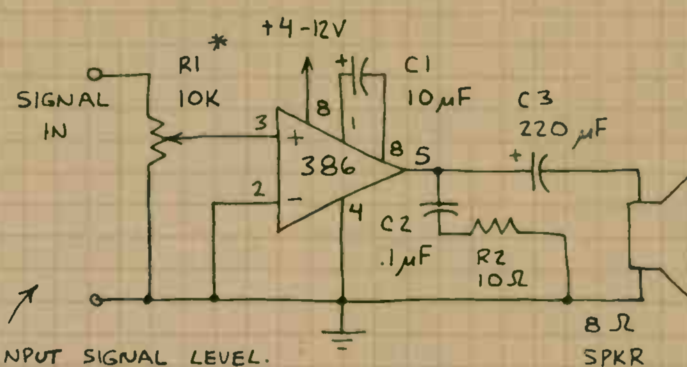


DESIGNED MAINLY FOR LOW VOLTAGE AMPLIFICATION. WILL DRIVE DIRECTLY AN 8-OHM SPEAKER. GAIN FIXED AT 20 BUT CAN BE INCREASED TO ANY VALUE UP TO 200.

X20 AMPLIFIER

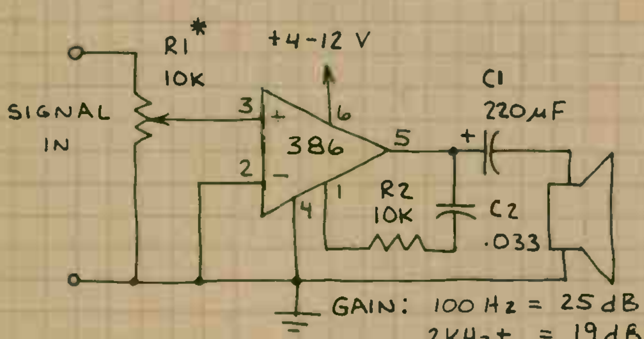


X200 AMPLIFIER



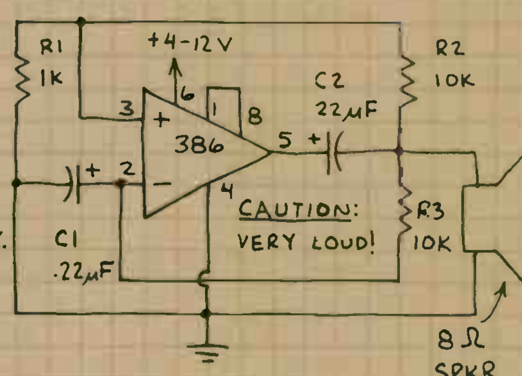
* R1 CONTROLS INPUT SIGNAL LEVEL.

BASS BOOSTER



AUDIBLE ALARM

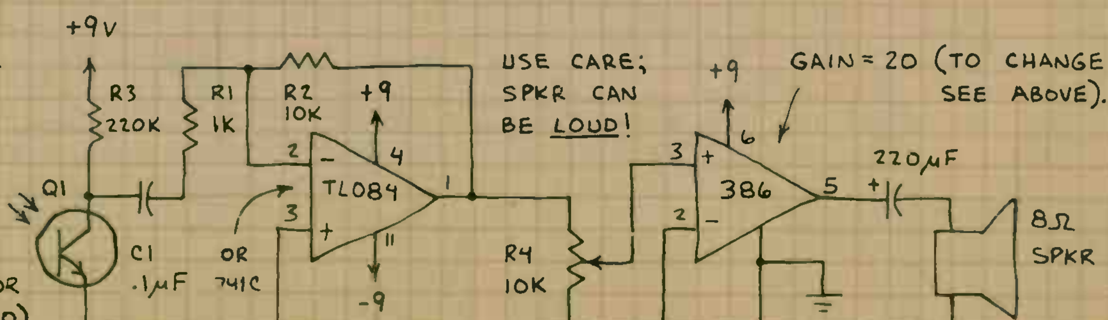
TONE FREQ: 2.1 KHz. REDUCE C1 TO INCREASE FREQUENCY.



HIGH GAIN POWER AMPLIFIER

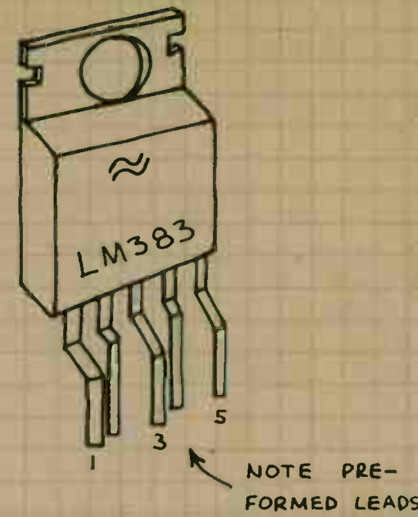
CIRCUIT SHOWN IS VERY SENSITIVE LIGHT WAVE RECEIVER. OK TO USE OTHER OP-AMPS FOR THE TL084.

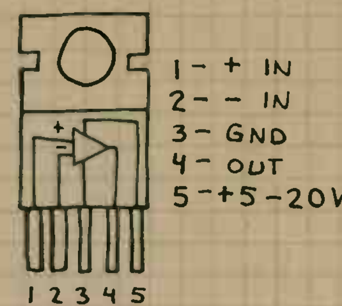
Q1- PHOTOTRANSISTOR (RADIO SHACK 276-130)



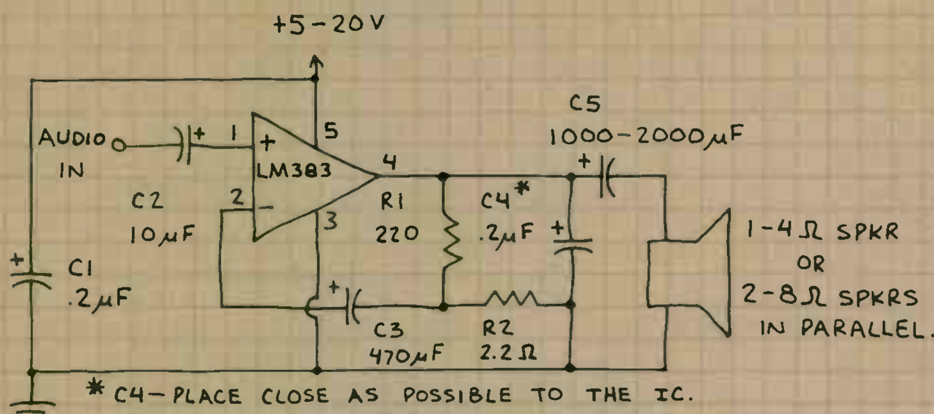
8-WATT POWER AMPLIFIER
LM383 / TDA2002

POWER AMPLIFIER DESIGNED SPECIFICALLY FOR AUTOMOTIVE APPLICATIONS — BUT IDEAL FOR ANY AUDIO AMPLIFICATION SYSTEM. DESIGNED TO DRIVE A 4-OHM LOAD (EQUIVALENT TO A SINGLE 4-OHM SPEAKER OR TWO 8-OHM SPEAKERS IN PARALLEL). THIS CHIP CONTAINS THERMAL SHUTDOWN CIRCUITRY TO PROTECT ITSELF FROM EXCESSIVE LOADING. THIS WILL CAUSE SEVERE DISTORTION DURING OVERLOAD CONDITIONS. YOU MUST USE AN APPROPRIATE HEAT SINK (e.g. RADIO SHACK 276-1363). SPREAD SOME HEAT SINK COMPOUND (276-1372) ON THE LM383 TAB BEFORE ATTACHING THE HEAT SINK.





8-WATT AMPLIFIER

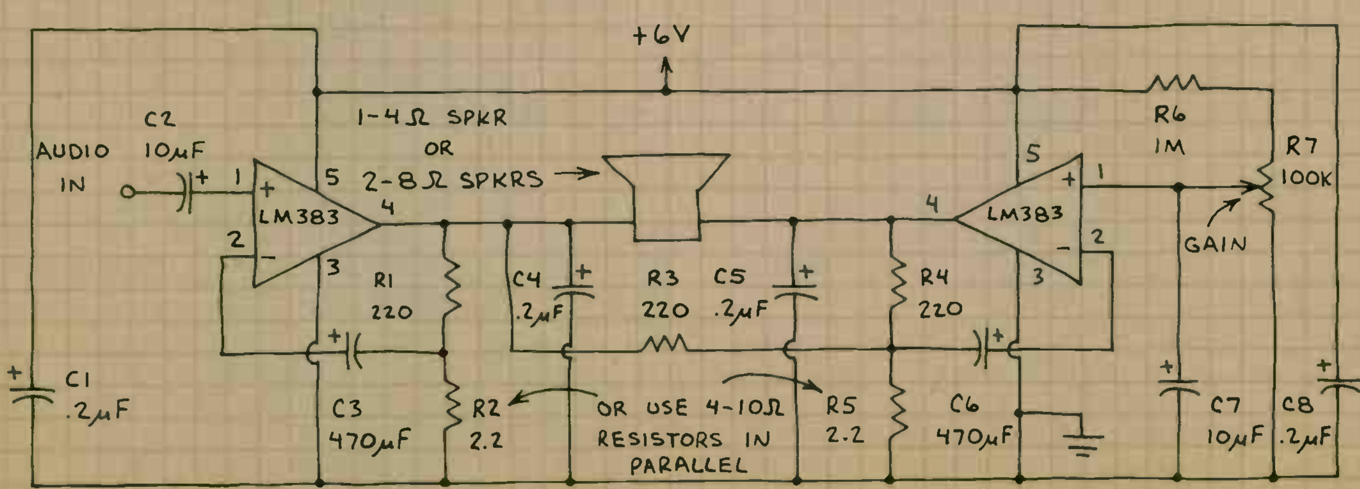


OPERATION:

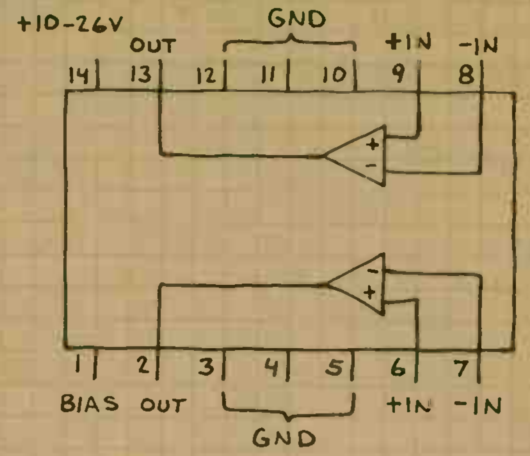
1. USE HEAT SINK.
2. REDUCE POWER SUPPLY VOLTAGE TO 6-9 VOLTS (AS IN CIRCUIT BELOW) IF SEVERE DISTORTION OCCURS.
3. DON'T APPLY EXCESSIVE INPUT SIGNAL.

* C4 - PLACE CLOSE AS POSSIBLE TO THE IC.
R2 - OK TO USE 4-10Ω RESISTORS IN PARALLEL.

16-WATT BRIDGE AMPLIFIER



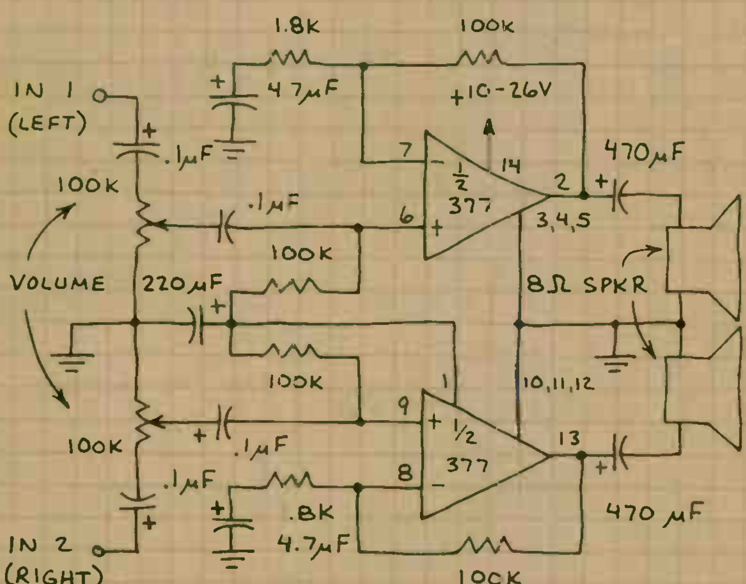
DUAL 2-WATT AMPLIFIER LM1877/LM377



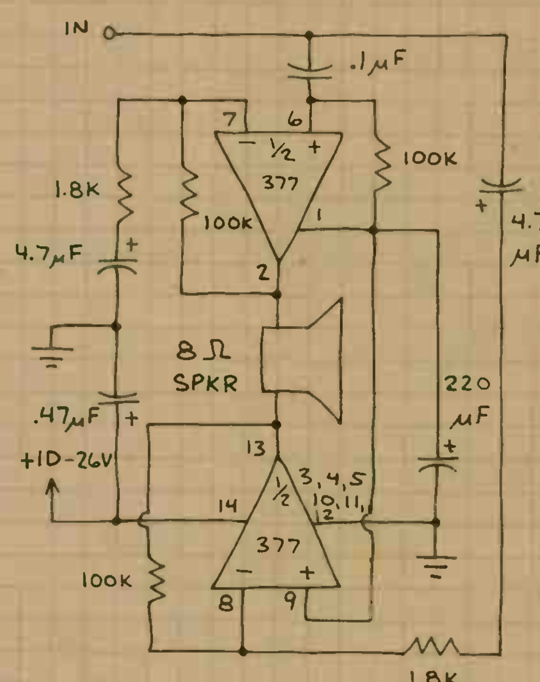
HIGH QUALITY, EASY TO USE POWER AMPLIFIER. IDEAL FOR DO-IT-YOURSELF STEREO, P.A. SYSTEMS, INTERCOMS, ETC. AUTOMATIC THERMAL SHUTDOWN PROTECTS AGAINST OVERHEATING. 70 dB CHANNEL SEPARATION MEANS VIRTUALLY NO CROSSTALK. ONLY 3 MICROVOLTS NOISE INPUT. HEATSINKING: UNNECESSARY IN MANY APPLICATIONS SINCE AVERAGE POWER IS USUALLY WELL BELOW BRIEF PEAKS. IN ANY CASE, PINS 3, 4, 5, 10, 11 AND 12 SHOULD BE CONNECTED TOGETHER. IF LOAD EXCEEDS DEVICE RATING, THERMAL SHUTDOWN WILL OCCUR.... AND WILL CAUSE SEVERE DISTORTION. USE HEATSINK (UP TO 10 SQUARE INCHES OF COPPER FOIL ON PC BOARD OR METAL FIN) IF THIS OCCURS.

NOTE: GND PINS SHOULD BE HEAT SUNK FOR MAXIMUM POWER.

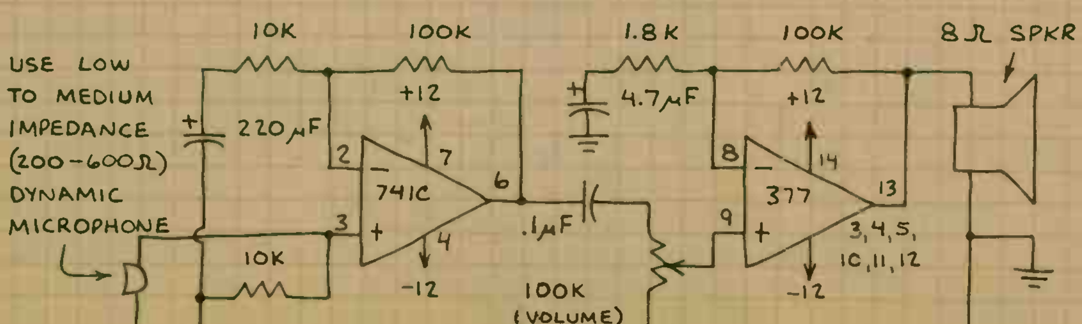
STEREO AMPLIFIER



4-WATT AMPLIFIER



PUBLIC ADDRESS SYSTEM



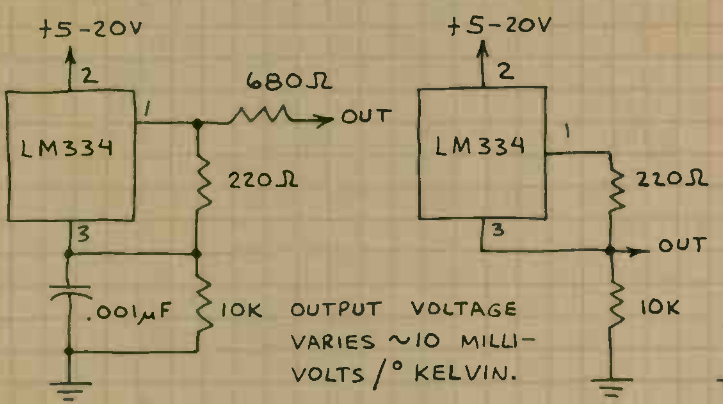
THIS CIRCUIT WORKS WELL. NOTE FEWER PARTS IN LM1877 / LM377 STAGE... THANKS TO SPLIT POWER SUPPLY.

TEMPERATURE SENSOR AND ADJUSTABLE CURRENT SOURCE
LM334 (276-1734)

VERSATILE 3-LEAD COMPONENT THAT LOOKS MORE LIKE A TRANSISTOR THAN AN IC. CAN BE USED AS A TEMPERATURE SENSOR, CURRENT SOURCE FOR LEDs AND OTHER COMPONENTS OR CIRCUITS, VOLTAGE REFERENCE, ETC.

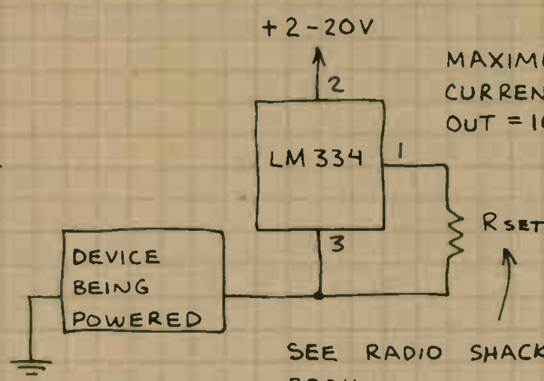
1 = R
2 = + V
3 = -V (GND)

BASIC THERMOMETERS



OUTPUT VOLTAGE VARIES ~10 MILLIVOLTS / ° KELVIN.

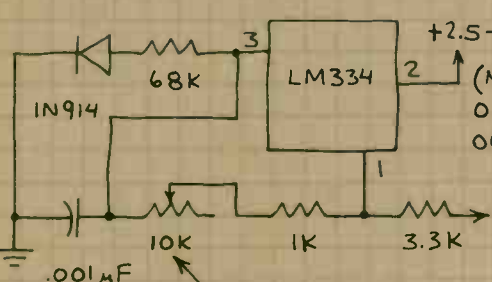
BASIC CURRENT SOURCE



MAXIMUM CURRENT OUT = 10 mA.

SEE RADIO SHACK DATA BOOK.

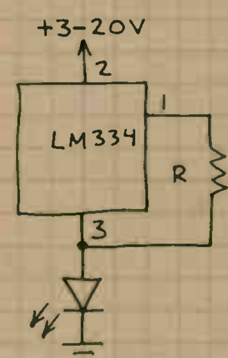
VOLTAGE REFERENCE



(MUST BE 1V OR MORE ABOVE OUTPUT.)

ADJUST VOLTAGE OUTPUT

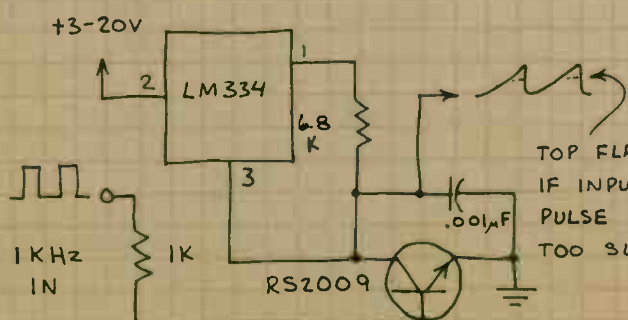
CALIBRATED LED



R	LED CURRENT
10 Ω	6.4 mA
15 Ω	4.3 mA

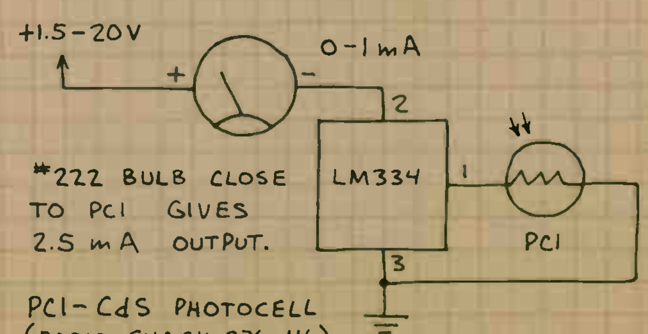
CONSTANT LED OUTPUT FOR ANY INPUT BETWEEN 3-20 VOLTS.

RAMP GENERATOR



TOP FLATTENS IF INPUT PULSE RATE TOO SLOW.

LIGHT METER



*222 BULB CLOSE TO PC1 GIVES 2.5 mA OUTPUT.

PC1- CdS PHOTOCELL (RADIO SHACK 276-116)

RADIO SHACK A DIVISION OF TANDY CORPORATION

U.S.A.: FORT WORTH, TEXAS 76102
CANADA: BARRIE, ONTARIO, CANADA L4M 4W5

TANDY CORPORATION

AUSTRALIA

280-316 VICTORIA ROAD
RYDALMERE, N.S.W. 2116

BELGIUM

PARC INDUSTRIEL DE NANINNE
5140 NANINNE

U.K.

BILSTON ROAD
WEDNESBURY, STAFFS WS10 7JN

PRINTED IN U.S.A.

TABLE OF CONTENTS

INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 95,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimeter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included: if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 95,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations. This section also includes some helpful indexes.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE IN-LINE

(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

R is the required resistance in ohms.
E is the required reduction in DC output voltage in volts.
I is the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type).** Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor, you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the − battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors
   1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
   2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors
   Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors
   1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
   2. Connect the negative lead to the collector The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors
Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.
2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.
3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.
4. Do not apply signals to the input with the power supply off.
5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr µA	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123*	60	0.085	15	1.0	A1
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q
276-1165†	40	1.000	5mA	0.55	A1

*GERMANIUM
†SCHOTTKY

ZENER DIODES—1 Watt

Catalog Number	Vz Volts ±10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-565	5.1	49	7	DO41
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1181	250	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

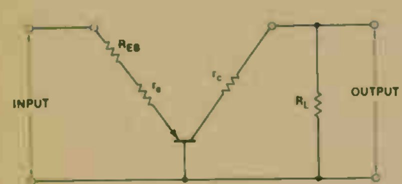
Catalog Number	Direct Commercial Equivalent	Mat.	Appli.	Polarity	Power Diss. @25°C Free Air	f_T Typical MHz	V_{CBO} V	V_{CEO} V	V_{EBO} V	I_C Max	I_B Max	h_{FE}	@V_{CE} V	@I_C mA	I_{CBO} at max V_{CB}	Case Style
276-1604#	2N3906	S	G.P.	PNP	350mW	250	40	40	5	200mA	—	60	1	0.1	—	T092
276-1617#	2N2222	S	G.P.	NPN	500mW	250	60	30	5	800mA	—	35	10	0.1	—	T018
276-2009	MPS2222A	S	G.P.	NPN	625mW	300	75	40	6	800mA	—	50	10	1	10nA	T092
276-2016	MPS3904	S	S	NPN	625mW	300	60	40	6	200mA	—	100-300	10	1	50nA	T092
276-2017	TIP31	S	P	NPN	40W‡	3	40	40	5	3A	1A	10-50	4	3A	300μA	T0220AB-2
276-2020	TIP3055	S	P	NPN	90W‡	3	100	70	7	15A	7A	20-70	4	4A	1mA	T0220
276-2023	MPS2907	S	S	PNP	625mW	200	60	40	5	600mA	—	50	10	1	20nA	T092
276-2027	MJE34	S	P	PNP	90W‡	3	40	40	5	10A	3A	20-100	4	3A	220μA	T0220
276-2030	2N3053	S	P	NPN	1W	100	60	40	5	700mA	—	50-250	10	150	—	T039
276-2041	2N3055	S	P	NPN	115W‡	2.5	100	60	7	15A	7A	20-70	4	1A	—	T03
276-2043	MJ2955	S	P	PNP	150W‡	4	100	60	7	15A	7A	70	10	0.5	0.7mA	T03
276-2055	2SC1308	S	SW	NPN	50W‡	—	1500	400	6	7A	0.8A	3	2	4A	100μA	T03
276-2058	2N4401	S	G.P.	NPN	625mW	250 min.	40	60	6	600mA	—	100-300	10	1	0.1μA	T092
276-2068	TIP120	S	P*	NPN	65W‡	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	T0220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted. #—Archer-Pack ‡With heat sink

MATERIAL:
S—Silicon; G—Germanium

APPLICATION:
S—Switch P—Power amp/switch *—High Gain Darlington LL—Low Level
G.P.—General Purpose RF/IF—RF/IF frequency UHF—Ultrahigh frequency SW—TV Sweep

USEFUL INFORMATION



Parameters of Common-Base Circuit

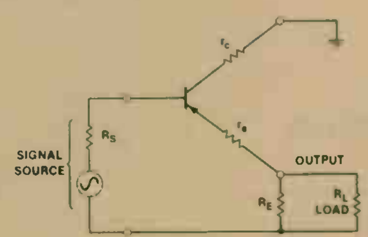
Input Impedance $Z_{in} = r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage

Current Gain $A_i = \alpha = \dfrac{\beta}{1+\beta}$

(In practice, α is 0.95 to 0 995, or approximately 1.)

Voltage Gain $A_v = \dfrac{Z_L}{r_{tr}} = g_m Z_L$



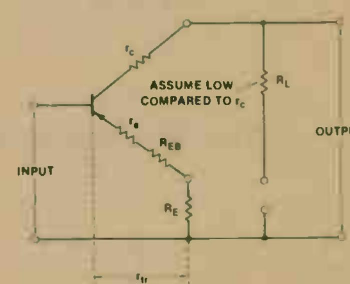
Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$
where,
Z_L is R_L in parallel with R_E

Output Impedance $Z_{out} = \dfrac{R_S}{\beta+1}$
where,
R_S is the output impedance of the signal source.

Current Amplification $A_i \approx \beta$

Voltage Amplification A_v = Less than unity



Parameters of Common-Emitter Circuit

Input Impedance $Z_{in} = h_{fe} r_{tr}$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage

Current Gain $A_i = \dfrac{\Delta I_C}{\Delta I_B} = h_{fe}$
where,
$h_{fe} = \beta = \dfrac{I_c}{I_b} = \dfrac{\alpha}{1-\alpha}$

Voltage Gain $A_v = \dfrac{\Delta V_C}{\Delta V_B} = \dfrac{Z_L}{r_{tr}} = g_m Z_L$

Power Gain $A_p = \dfrac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \dfrac{Z_L}{r_{tr}}$

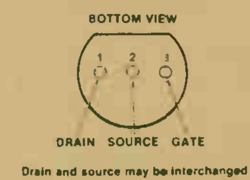
SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

MPF102
276-2062

GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	−55 to +150°C

N-CHANNEL MOSFET TRANSISTOR

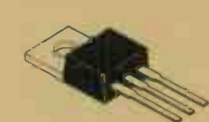
IRF511
276-2072

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

PIN CONNECTION



FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage (R_{GS} = 1 MΩ), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	±20V
Continuous Drain Current, I_D @ $T_C \cong 36°C$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) L = 100 μH	8A
Operating Temperature Range, T_J	−55 to +150°C
Storage Temperature Range, T_{stg}	−55 to +150°C

IRF511 276-2072

TEST CIRCUITS

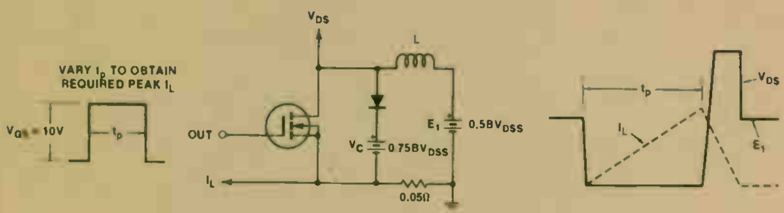


Figure 1—Clamped Inductive Test Circuit and Waveform

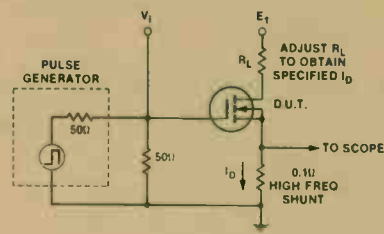
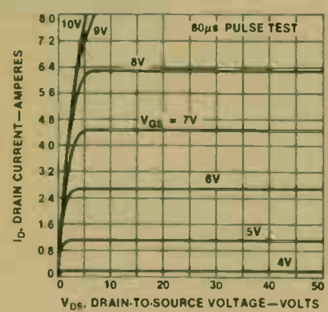
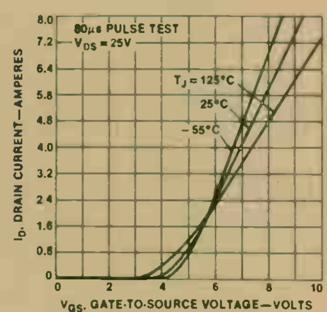


Figure 2—Switching Time Test Circuit

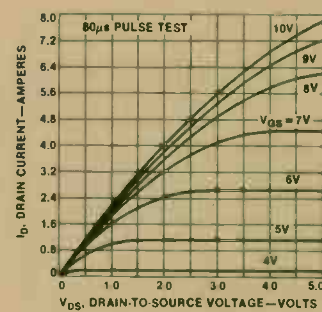
TYPICAL CHARACTERISTICS



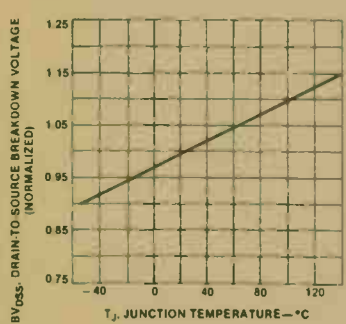
Output Characteristics



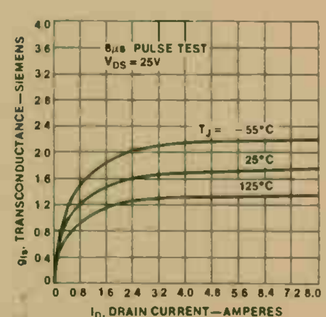
Transfer Characteristics



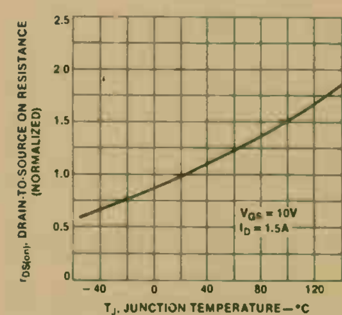
Saturation Characteristics



Breakdown Voltage
vs Temperature



Transconductance
vs Drain Current



Normalized On-Resistance
vs Temperature

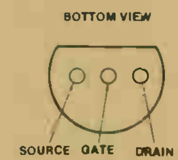
SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

2N3819
276-2035

GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

PIN CONNECTION



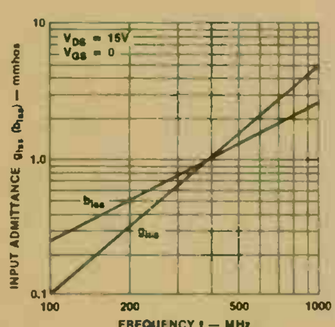
T092

ABSOLUTE MAXIMUM RATING (T_A = 25°C unless otherwise noted)

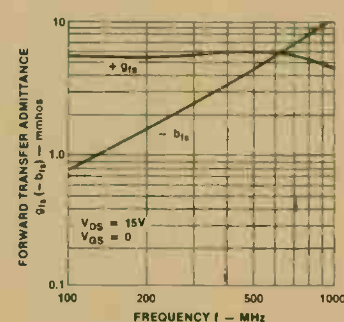
Gate-Source Breakdown Voltage BV_{GSS}	-40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0 mmhos
Reverse Gate Leakage I_{GSS}	-100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	-6.0 V
Output Conductance g_{os}	10 μmhos
Feedback Capacitance C_{rss}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain G_{ps}	12 dB
Power Dissipation	360 mW

TYPICAL CHARACTERISTICS

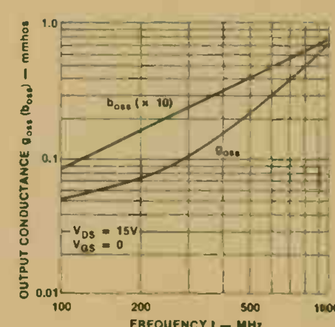
COMMON SOURCE



Input Admittance vs Frequency

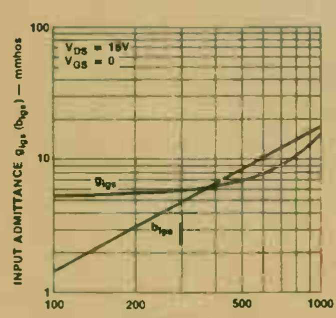


Forward Transfer Admittance vs Frequency

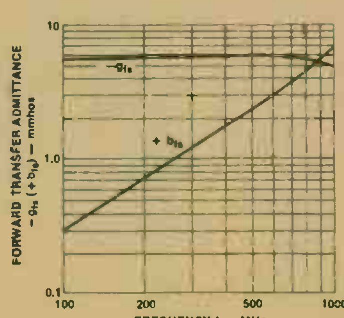


Output Conductance vs Frequency

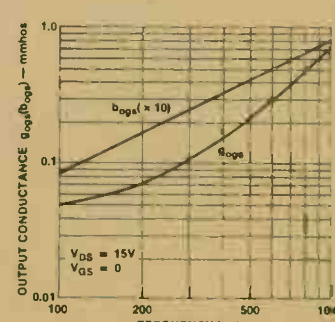
COMMON GATE



Input Admittance vs Frequency



Forward Transfer Admittance vs Frequency



Output Conductance vs Frequency

NOTES

TRANSIENT/SURGE ABSORBER

ERZ-C20DK201U
276-568

ERZ-C14DK201U
276-570

GENERAL DESCRIPTION

ZNR varistors are zinc oxide resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-I characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

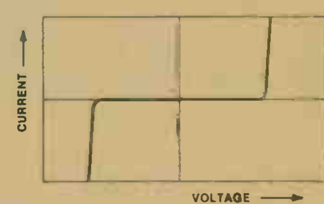
PIN CONNECTION

FEATURES

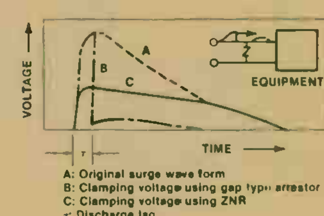
- Excellent clamping voltage characteristic and fast response time (< 50 nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indicative of gap-type arrestors.
- Bilateral and symmetrical V-I characteristic curve. The ZNR can, therefore, be used both in AC and in DC circuits, for protection of either positive or negative transients.

ABSOLUTE MAXIMUM RATING

Varistor Voltage (V-I @ 1mA DD) (185V 225V)	200V
Applied Voltage AC$_{RMS}$)	130V
(DC)	170V
Clamping Voltage @ Test Current (8 × 20 μsec) V_C(V)	340V
IP (A) (276-568)	100A
IP (A) (276-570)	50A
Peak Pulse Current (8 × 20 μs) 1 Time (276-568)	6500A
(276-570)	4500A
Energy (J) (276-568)	70J
(276-570)	35J
Power (276-568)	1W
(276-570)	0.60W
Capacitance (pf @ 1kHz) (276-568)	2000pf
(276-570)	1000pf
Operating Ambient Temperature	−40° + 85°C
Storage Temperature	−40° +125°C

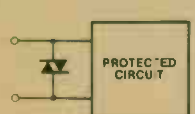


V-I Characteristic Curve

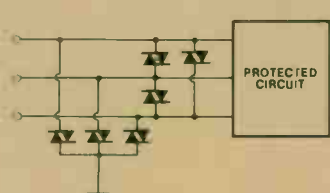


Clamping Voltage Characteristics

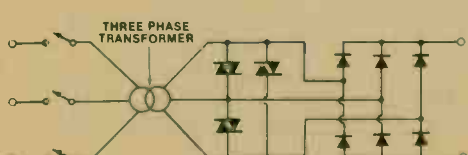
TYPICAL APPLICATIONS



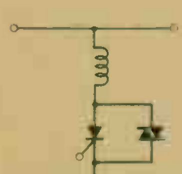
Single Phase Line Surge



Three Phase Line Surge



Transformer Inductive Surge
by Primary Switch Off



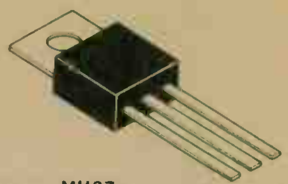
Solenoid Inductive Surge
by Thyristor Switching

Solenoid Inductive Surge
by Transistor Switching

SPECIAL PURPOSE DEVICES (SCR) (TRIAC)

276-1000
276-1020
276-1067

THYRISTORS



MU27

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits," capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon-Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1000	6	400	50	2.5	MU27

OPTOELECTRONIC (LED) LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (ma)	Max Pwr Diss P_D (mw)	Case Style
276-012	EL336EGW	635/565	ORANGE/GREEN	2.8	5	30	100	2
276-018	PR5534S	700	RED	2.5	4	100	75	6
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	7
276-022	SLP-236B	565	GREEN	2.8	3	30	70	7
276-025	R9-56	—	RED/GREEN	2.0	3.0	10	—	9
276-026	—	650	RED	—	3	50	100	4
276-033	TLR-147	700	RED	2.1	4	35	100	3
276-037	SLP-235B	565	GREEN	2.8	3	30	70	6
276-041	—	700	RED	1.75	3	70	140	5
276-065	369HHD	697	RED	1.8	5	20	75	10
276-066A	SLA-591LT3	660	RED	2.5 (@20 ma)	4	50	100	11
276-068	—	700	RED	1.9	—	30	—	8
276-069	—	560	GREEN	2.1	—	30	—	8
276-088	SLP-888A	660	RED	2.2 (@2 ma)	3	20	70	1

FIGURE 1
Super high brightness LED with holder.

FIGURE 2
This is a Round Type LED (5.0 mm). It uses two integral chips which are matched for uniform orange and green light output. The lens is white diffused type.

FIGURE 3
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.

FIGURE 4
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.

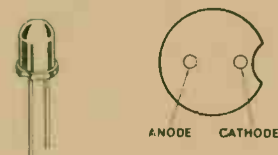


FIGURE 5
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.

FIGURE 6
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

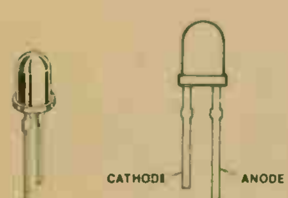


FIGURE 7
This is a frame type solid state LED with a diffused lens.

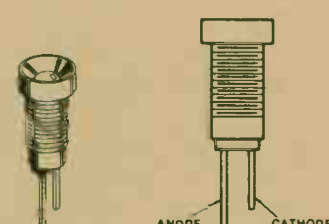


FIGURE 8
This is a subminiature LED indicator with polished chrome reflective holder.

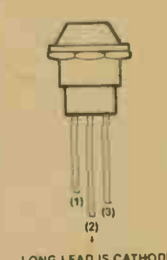


FIGURE 9
This is a three terminal LED. The light color radiates "red" when terminals 2 and 3 are used. Green light radiates when terminals 1 and 2 are used.

FIGURE 10
This is a jumbo red LED. It consists of two LED elements connected cathode to cathode in a 10mm diameter housing.

FIGURE 11
This is a high-brightness red LED. It is many times brighter than ordinary LEDs, yet still runs cool.

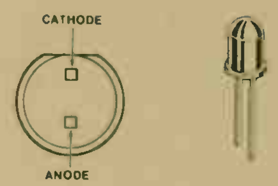
TIL906-1
276-143

P-N GALLIUM ALUMINUM ARSENIDE INFRARED- EMITTING DIODE

GENERAL DESCRIPTION

This is a P-N Gallium Aluminum Arsenide Infrared-Emitting diode designed to emit near infrared radiation when forward biased. Its output is spectrally compatible with silicon sensors and has a high power output with a 20° beam angle.

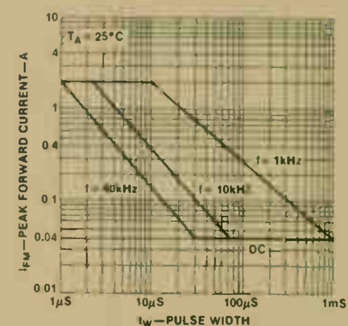
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

Forward Voltage (Static) (VF)	1.75 V
Reverse Voltage (VA)	3 V
Continuous Forward Current at (Or Below) 25°C Free-Air Temperature	100 mA
Peak Forward Current (See Note 1)	2 A
Reverse Current (V_R = 3 V)	100 μA
Radiant Power Output (P_O) (IF = 20 mA)	1.5 MW
Emission Beam Angle Between Half-Intensity Points	20°
Wave Length at Peak Emission (IF = 20 mA)	880 nM
Operating Temperature Range	−40°C To 80°C
Storage Temperature Range	−40°C to 100°C

NOTE: 1 This value applies for $t_w \leq 10\ \mu s$, $f \leq 1$ kHz. See Figure 1.



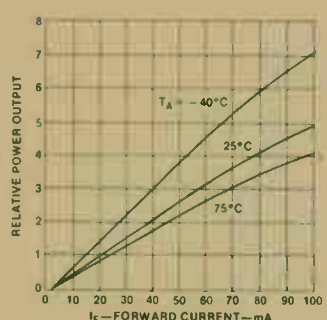
Peak Forward Current
vs
Pulse Width

Figure 1

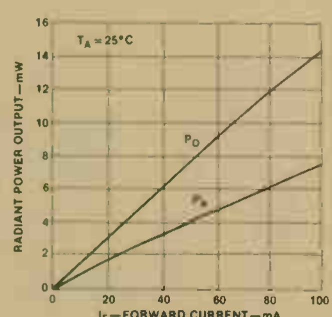
FEATURES

- High power output With a 20° beam angle
- Output spectrally compatible with silicon sensors

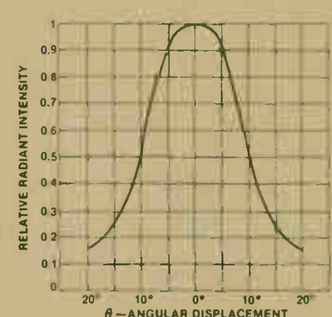
TYPICAL CHARACTERISTICS



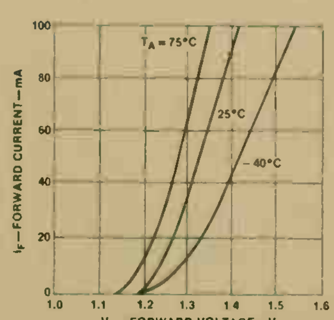
Relative Power Output
vs
Forward Current



Radiant Power Output
vs
Forward Current



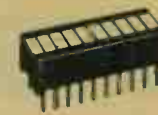
Relative Radiant Intensity
vs
Angular Displacement



Forward Conduction
Characteristics

B1001R
276-081

HIGH EFFICIENCY RED BAR GRAPH DISPLAY



GENERAL DESCRIPTION

The B1001R is a 10 segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

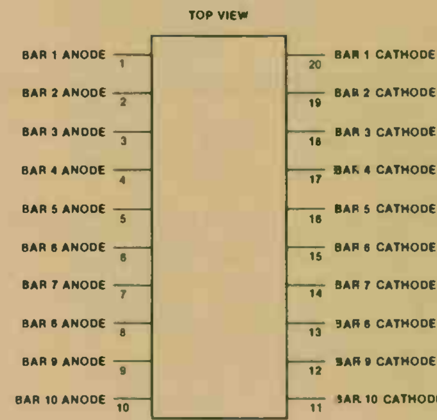
FEATURES

- Large segments, closely spaced
- End stackable
- Fast switching, excellent for multiplexing
- Low power consumption
- Directly compatible with ICs
- Wide viewing angle

ABSOLUTE MAXIMUM RATINGS
(25°C Free Air Temperature Unless Otherwise Specified)

Power dissipation	100mW
Continuous forward current	
Total	300 mA
Per segment	30 mA
Reverse voltage	
Per segment	5.0 V
Storage and operating temperature	−30 to +80°C

PIN CONNECTION



ELECTRO-OPTICAL CHARACTERISTICS

Forward Voltage	1.6 V
Peak emission wavelength	655nm

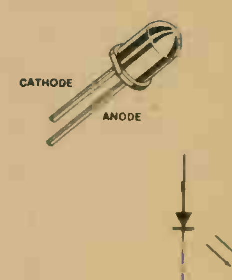
F336GD
276-030
F336HD
276-036

BLINKING LED

GENERAL DESCRIPTION

The F336GD is a solid state LED with a green diffused plastic lens. The F336HD is a solid state LED with a red diffused plastic lens. A built-in IC flashes the LEDs on/off and can be driven directly by standard TTL and CMOS circuits, eliminating the need for external switching circuitry.

PIN CONNECTION



FEATURES

- Built-in IC chip, flashes LED on and off to attract attention
- Pulse rate 1.0Hz
- T1 3/4 size
- Larger full flood radiating area
- 1-inch leads
- 1.2mcd @ V_F = 3.0V
- IC compatible

ABSOLUTE MAXIMUM RATINGS

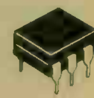
Operating Voltage	5 V
Peak Inverse Voltage	0.4 V
Operating Temperature	0°C to 70°C
Storage Temperature	−20°C to +85°C
Lead Soldering Temperature (1/16 inch from case)	5 sec. @ 260°C

ELECTRO-OPTICAL CHARACTERISTICS

Luminous Intensity	1.2 mcd
Emission Peak Wavelength (F336GD)	565nm
(F336HD)	597nm
Spectral Line Halfwidth (F336GD)	30nm
(F336HD)	90nm

MOC3010
276-134

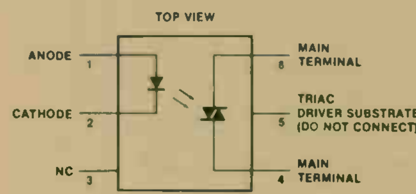
OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

PIN CONNECTION



INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ TA = 25°C	100 mW

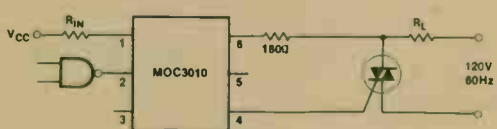
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current TA = 25°C	100 mA
(Full Cycle, 50 to 60 Hz TA = 70°C)	50 mA
Peak Nonrepetive Surge Current (PW = 10ms, DC = 10%)	1.2 A
Total Power Dissipation @ TA = 25°C	300 mW
Derate above 25°C	4.0 mW/°C

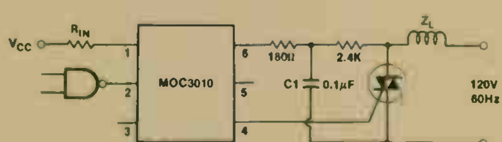
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s) (Peak ac Voltage, 60 Hz, 5 Second Duration)	7500 Vac
Total Power Dissipation	330 mW
Junction Temperature Range	−40 to +100°C
Ambient Operating Temperature Range	−40 to +70°C
Storage Temperature Range	−40 to +150°C
Soldering Temperature (10s)	260°C

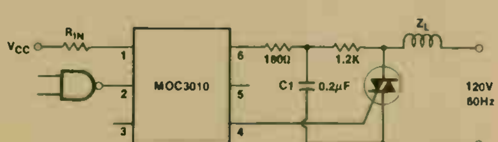
APPLICATIONS



Resistive Load

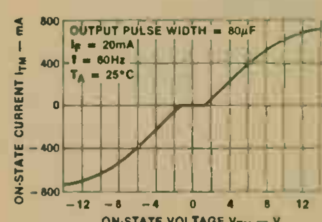


Inductive Load with Sensitive Gate Triac
(I_{GT} < 15mA)

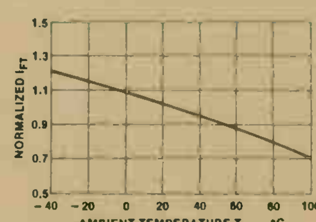


Inductive Load with Non-Sensitive Gate Triac
(15mA < I_{GT} < 50mA)

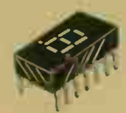
TYPICAL CHARACTERISTICS



On-State Current vs
On-State Voltage



Trigger Current
vs Temperature



COMMON CATHODE DISPLAY

MAN74
276-075

GENERAL DESCRIPTION

This is a red 0.3 inch common cathode RHDP Display device with a brightness or luminous intensity of 125 μcd @ 10mA.

APPLICATIONS

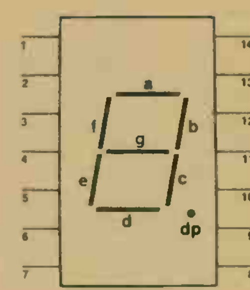
- Instruments
- Test Equipment
- Office Machines
- Computers
- Automobiles
- Clocks/Radios
- Communication Equipment
- Calculators
- CB Radios

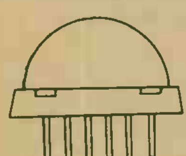
ABSOLUTE MAXIMUM RATINGS

Forward Voltage	2 V
Forward Current	20 mA
Power (P_D)	700 mW
Wave Length	660 nM
Brightness/Luminous Intensity @ 10mA	125 μcd

PIN CONNECTION

TOP VIEW





BIG HI-EFFICIENCY RED LED

EL-811HR
276-064

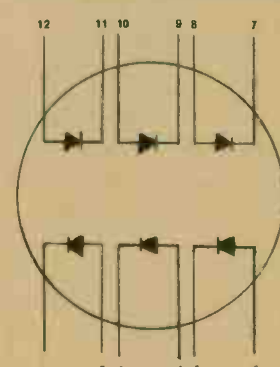
GENERAL DESCRIPTION

The 276-064 is a 0.79" diameter hi-efficiency Red LED. This device is ideal for a variety of applications where a large bright source is required.

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage	5 V
Reverse Current (Vr = 5V)	10μA
Operating Temperature Range	−40°C To 85°C
Storage Temperature Range	−40°C To 100°C
Lead Soldering Temperature [1.6mm (0.063 inch) From Body]	260°C For 5 Seconds
Spectral Line Half-Width (Aλ)	45mm
Power Dissipation (Pd)	100mW
Peak Forward Current (duty 1/10. 1KHz) If (Peak)	160mA
Recommend Operating Current If (Rec)	20mA
Average Luminous Intensity 1.2 (If = 10mA) Iv	25μcd
Luminous Intensity Matching Ratio Iv-m	2:1
Forward Voltage (If = 20mA) Vf	2.8 V

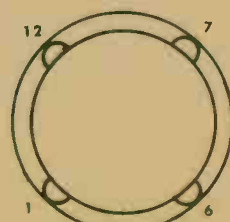
PIN CONNECTION



FEATURES

- 0.79" (20.0mm) big LED
- Graphic stacking allowable
- Suitable for multiplex operation
- High luminous intensity
- Solid state reliability

PIN	FUNCTION
1	CATHODE
2	ANODE
3	CATHODE
4	ANODE
5	CATHODE
6	ANODE
7	CATHODE
8	ANODE
9	CATHODE
10	ANODE
11	CATHODE
12	ANODE



TIL414 276-145 INFRARED PHOTOTRANSISTOR

GENERAL DESCRIPTION

The TIL414 is an NPN silicon phototransistor in a T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

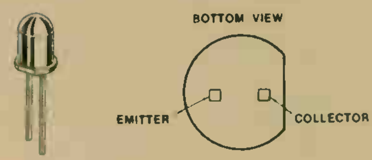
ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation	50 mW
Operating Temperature	−40° to +100°C

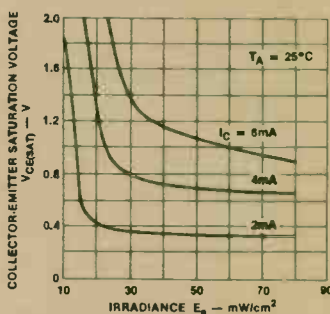
ELECTRICAL CHARACTERISTICS (Typical)

Dark Current (V_{CE} = 30 V)	25 nA
Light Current (V_{CE} = 5 V●E_e = 20mW/cm²)	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time	8 μs
Fall Time	6 μs

PIN CONNECTION



TYPICAL CHARACTERISTICS



Collector-Emitter Saturation Voltage vs Irradiance

276-116 CADMIUM SULPHIDE PHOTOCELL

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms. max. voltage 170 V. max. wattage .2 watts. rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

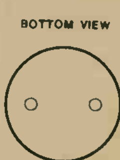
SPECIFICATIONS

● Shape	Round
● Sensitive Area	07 sq. in
● Weight	1.56 gms
● Resistance at 1 Ftc (2870°K)	1.7k Ohms
● Typical Resistance 100 Ftc (2870°K)	100 Ohms
● Resistance Dark Minimum (1 Minute)	0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc)	170 V peak
Max. Power Dissipation at 25°C	2 watts
Power Derating	Linearly to 0 @ 75°C
Operating Temp. Range	−40 to +75°C

CONNECTIONS



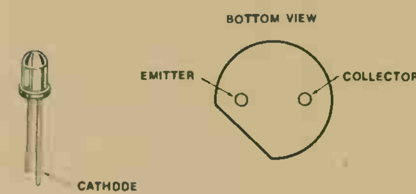
NOTES

276-142 INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

PIN CONNECTION



GRAPHIC SYMBOL

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	−40 to +80°C
Storage Temperature Range	−40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915mm

276-124 2.5×5cm SILICON SOLAR CELL

GENERAL DESCRIPTION

A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

CONNECTIONS

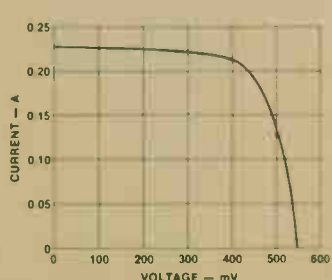
FRONT VIEW

ABSOLUTE MAXIMUM RATINGS

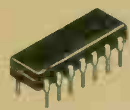
Voltage (Open Circuit):	0.55V
Current (short circuit):	0.2A

(Test conditions: Full sunlight at noon on a clear day at 25°C (76°F).)

TYPICAL CHARACTERISTICS



Current vs Voltage



QUAD TWO-INPUT NOR GATE

4001
276-2401

GENERAL DESCRIPTION

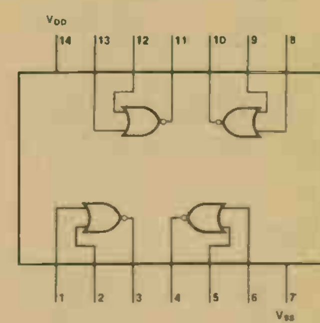
The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN CONNECTION

TOP VIEW



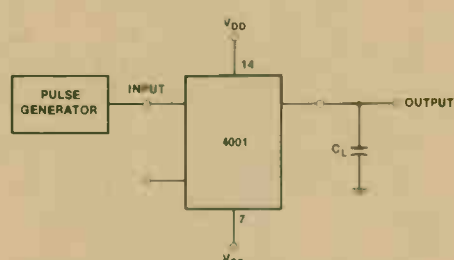
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

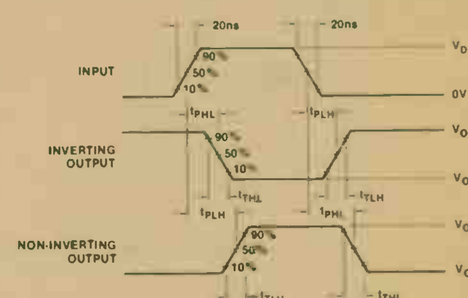
DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

SWITCH TIME TEST CIRCUIT

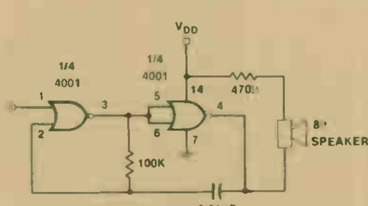


*All unused inputs of OR, NOR gates must be connected to V_{SS}

SYNC TIMING WAVEFORMS

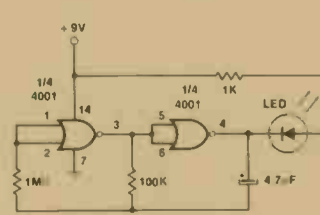


TYPICAL APPLICATIONS



Tone frequency is about 1kHz

Gated Tone Source



LED flashes 1.2 times/second

LED Flasher

4011 QUAD TWO-INPUT NAND GATE
276-2411

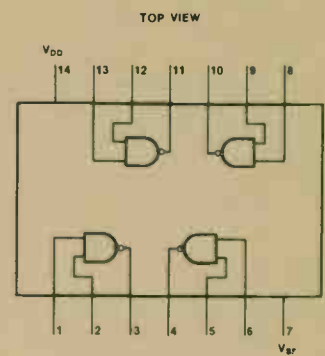
GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN CONNECTION



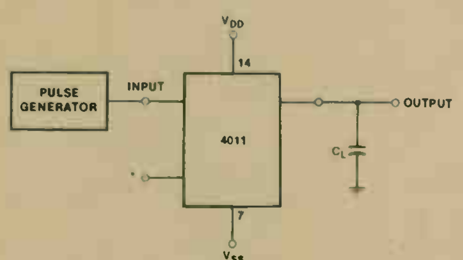
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

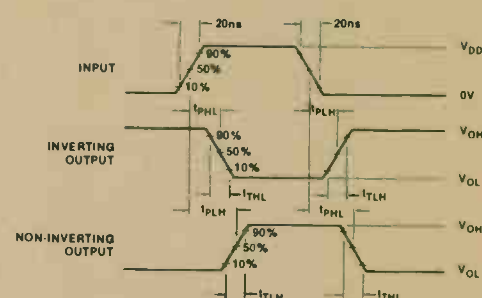
DC Supply	−0.5 to +16 Vdc
Input voltage, All Inputs	− 0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

SWITCH TIME TEST CIRCUIT

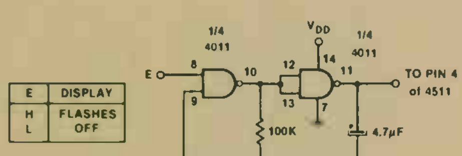


*All unused inputs of AND, NAND gates must be connected to V_{DD}.

SYNC TIMING WAVEFORMS

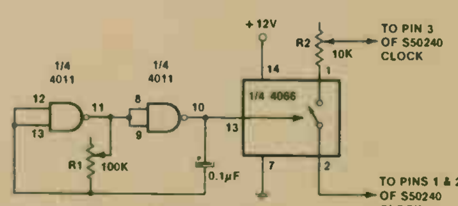


TYPICAL APPLICATIONS



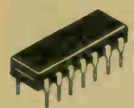
Display flashes once per second when E is high.

Display Flasher



This produces bagpipe and other unusual sounds. Adjust R1 to vary interruption rate.

Special Effects



DUAL TYPE D FLIP-FLOP

4013
276-2413

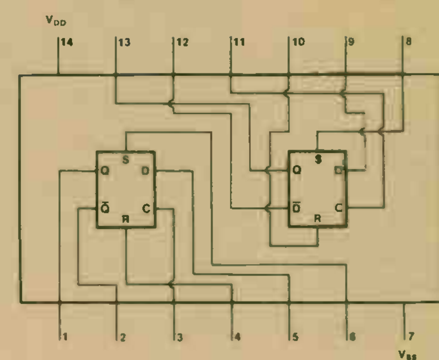
GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data. (D). Direct Set. (S). Direct Reset. (R) and Clock (C) inputs and complementary outputs (Q and $\bar{Q}$). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD})

PIN CONNECTION



FEATURES

- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads. one low-power schottky TTL load or two HTL loads over the rated temperature range.

TRUTH TABLE

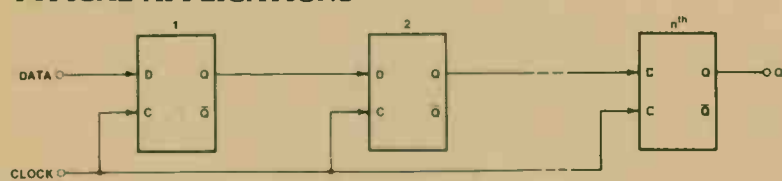
INPUTS				OUTPUTS	
Clock†	Data	Reset	Set	Q	$\bar{Q}$
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

X = Don't Care H = High Level
L = Low Level † = Level Change

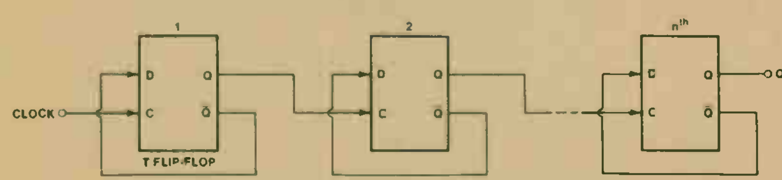
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage. All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

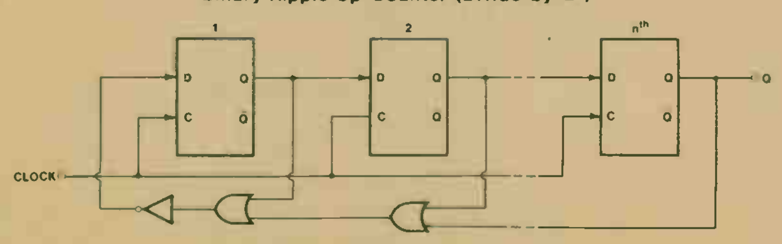
TYPICAL APPLICATIONS



n-Stage Shift Register

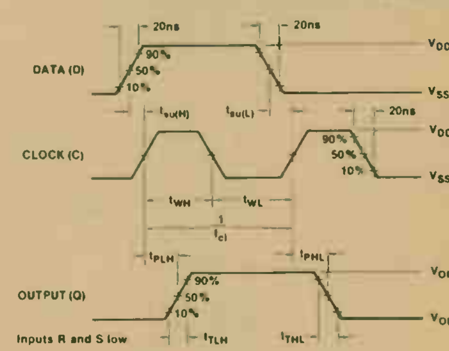


Binary Ripple Up-Counter (Divide-by-2^n)

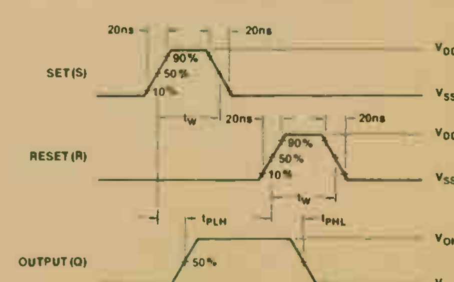


Modified Ring Counter (Divide-by-(n+1))

SYNC TIMING WAVEFORMS



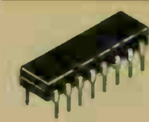
Data, Clock, and Output



Set, Reset, and Output

4017
276-2417

DECADE COUNTER/DIVIDER



GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}.

FEATURES

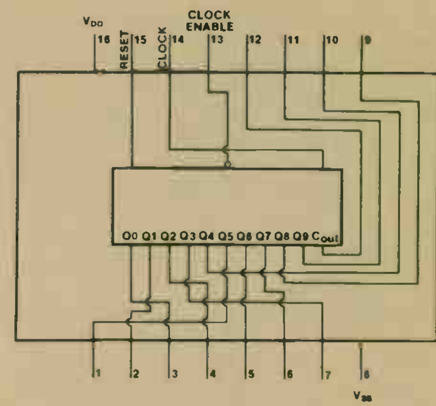
- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ V_{DD} = 10 Vdc
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

PIN CONNECTION

TOP VIEW

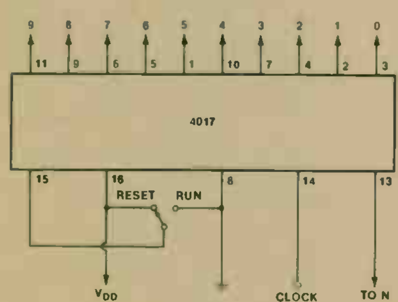


TRUTH TABLE (Positive Logic)

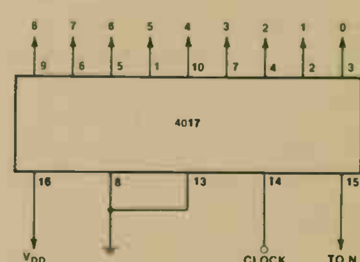
Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
↑	L	L	n + 1
↓	X	L	n
X	↑	L	n
1	↓	L	n + 1

X = Don't Care If n <5 Carry = "H", Otherwise = "L"
L = Low Level H = High Level

TYPICAL APPLICATIONS

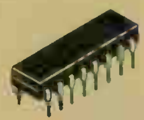


Count to N and Halt



For N = 9, ground pin 15.

Count to N and Recycle



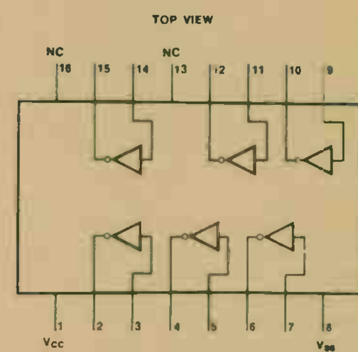
INVERTING HEX BUFFER

4049
276-2449

GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC}. The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters (V_{CC} = 5.0 V, $V_{OL} \leq$ 0.4 V, $I_{OL} \geq$ 3.2 mA). Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

PIN CONNECTIONS



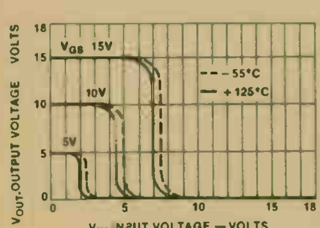
FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

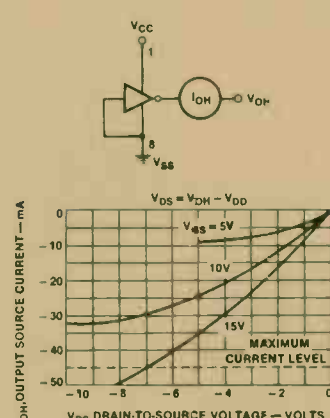
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS}, Pin 8)

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

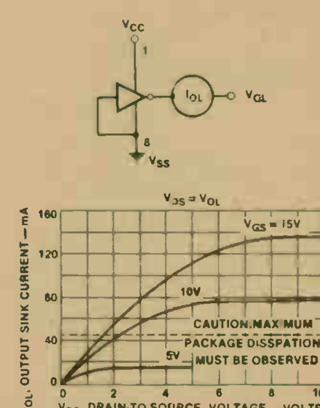
TYPICAL CHARACTERISTICS



Output Voltage vs Input Voltage

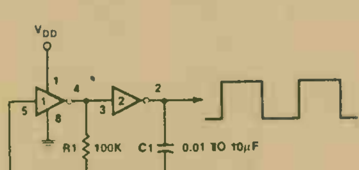


Output Source Current vs Drain-To-Source Voltage



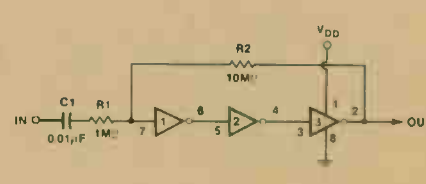
Output Sink Current vs Drain-To-Source Voltage

TYPICAL APPLICATIONS



1,2 = 1/3 4049
Pulse Rate = 1/1.4R1C1

Clock Pulse Generator

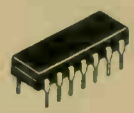


1,2,3 = 1/2 4049
Note that the inverters are used in a LINEAR mode
Gain = R2/R1

Linear 10X Amplifier

LS7210
276-1307

PROGRAMMABLE DIGITAL DELAY TIMER



GENERAL DESCRIPTION

This device is a monolithic, ion implanted MOS programmable digital timer that can generate a delay in the range of 6ms to infinity. The delay is programmed by 5 binary weighted input bits in combination with the oscillator provided. The chip can be operated into 4 different modes: delayed operate, delayed release, dual delay and one-shot. These modes are selected by the control inputs A & B.

FEATURES

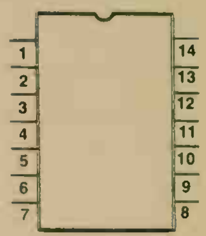
- Programmable Delay from Miliseconds to Hours
- Can be Cascaded for Sequential Events or Extended Delay
- Single Power Supply Operation +4.75V to 15V
- On Chip Oscillator
- Alternate Clock Input
- On Chip Power On Reset
- Internal Pull-ups on Inputs
- Frequency Ranges to 160 KHz
- CMOS Type Noise Immunity on All Inputs
- All Inputs are CMOS, PMOS & TTL Compatible

ABSOLUTE MAXIMUM RATINGS

Voltage referenced to V_{DD}

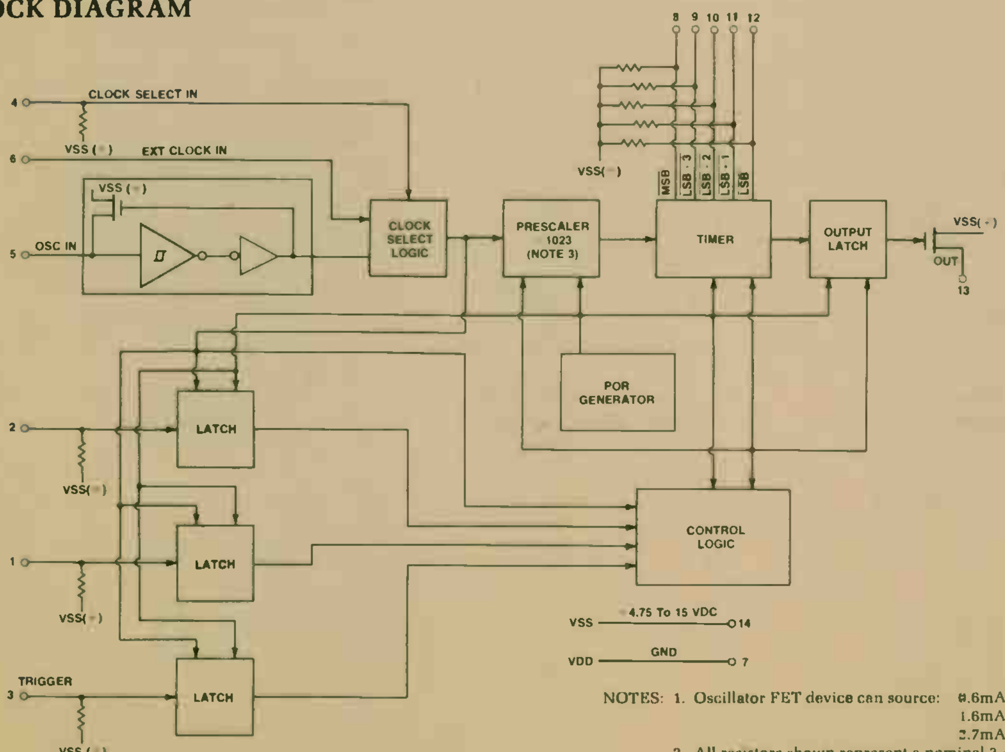
DC supply voltage (V_{SS})	+18V
Voltage (any pin)	0 to V_{SS} + .3V
Operating temperature (TA)	−25 to +70°C
Storage temperature T_S + g	−65 to +150°C

PIN CONNECTION



PIN	FUNCTION
1	B
2	A
3	Trigger
4	Clock select
5	OSC
6	External clock
7	$V_{DD}(-)$
8	$\overline{\text{MSB}}$
9	$\overline{\text{LSB + 3}}$
10	$\overline{\text{LSB + 2}}$
11	$\overline{\text{LSB + 1}}$
12	$\overline{\text{LSB}}$
13	Out
14	$V_{SS}(+)$

BLOCK DIAGRAM



NOTES: 1. Oscillator FET device can source: 0.6mA @ V_{SS} = +5V
1.6mA @ V_{SS} = +10V
2.7mA @ V_{SS} = +15V
2. All resistors shown represent a nominal 3 μa constant current source.
3. ÷ 1023 is standard. Any number from 1 to 1022 can be mask programmed.

LS7210 276-1307

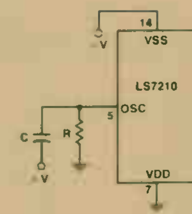
INPUT/OUTPUT DESCRIPTION

Oscillator Input

The frequency of the internal oscillator is set by an RC network connected to the OSC input, as shown in Item 1. The R and C values for different frequencies is given in Item 2.

External Clock Input

If the internal oscillator is not used, the chip can be driven by an external clock applied to this input.



Item 1 — LS7210 Oscillator Connection

Clock Select Input

The internal oscillator or the external clock is selected by the proper logical level applied to this input. A logic "1" selects the external clock and logic "0" selects the internal oscillator. The clock select input has an internal pull up resistor.

Trigger Input

A positive or a negative transition at the trigger input initiates a delay in turning on or off the output. A negative transition always turns on the output with or without delay depending on the selected mode. A positive transition at the trigger input always turns off the output (with the exception of one-shot mode) with or without delay depending on the selected mode. The delay is a function of the oscillator frequency (or the external clock frequency) and the weighting factor programmed at the weighting factor inputs. The trigger input is clocked into the input latch with the negative edge of the external clock. All timings begin after the latch has been set up. The trigger input has an internal pull-up resistor

ITEM 2
OSCILLATOR FREQUENCY COMPONENT SELECTION CHART*

RESISTANCE R, (K)	CAPACITY C(pF)	FREQ. @V_{SS} + 5V		FREQ. @V_{SS} + 10V		FREQ. @V_{SS} + 15V	
47	100	128	KHz	139	KHz	185	KHz
	200	79	KHz	83	KHz	85	KHz
	500	37	KHz	37	KHz	36	KHz
	1000	22	KHz	21	KHz	20	KHz
	50000	610	Hz	500	Hz	475	Hz
470	100	15	KHz	16	KHz	16.5	KHz
	200	9	KHz	9.5	KHz	9.5	KHz
	500	4	KHz	4	KHz	4	KHz
	1000	2.4	KHz	2	KHz	2	KHz
	50000	63	Hz	51	Hz	47	Hz
2000	100	4.2	KHz	4.7	KHz	5	KHz
	200	2.5	KHz	2.7	KHz	2.8	KHz
	500	1.1	KHz	1.1	KHz	1.1	KHz
	1000	670	Hz	617	Hz	610	Hz
	50000	17	Hz	14	Hz	14	Hz
10000	10uF	.02	Hz	.015	Hz	.013	Hz

*NOTE: Accuracy within 5% from chip to chip.

LS7210 276-1307

Weighting Factor Input, LSB-MSB

A delay from the trigger input to the output is programmed by applying 1's complement binary weighted numbers at these 5 inputs. The exact equation for the delay is:

$$\text{Delay} = \frac{(1 + 1.023N)}{f} \quad \text{See Block Diagram Note 3}$$

Where f = The oscillator frequency and N = Weighting factor. All the weighting factor inputs have internal pull-up resistors.

ITEM 5
WEIGHTING BITS ASSIGNMENT

Input	Value
$\overline{\text{LSB}}$	1
$\overline{\text{LSB + 1}}$	2
$\overline{\text{LSB + 2}}$	4
$\overline{\text{LSB + 3}}$	8
$\overline{\text{MSB}}$	16

EXAMPLE: For a weighting factor of 25, inputs $\overline{\text{MSB}}$, $\overline{\text{LSB + 3}}$, and $\overline{\text{LSB}}$ should be programmed to logic "0".

Mode Select Inputs A&B

The chip can be programmed to operate in 4 different modes by applying the logic levels to inputs A&B as indicated in Item 3. The mode select inputs are clocked into the input latches with the negative edge of the external clock. These inputs should not be changed while a delay timing is in progress. The mode select inputs have internal pull-ups.

ITEM 3
MODE SELECTION

CONTROL A	CONTROL B	MODE
1	1	Dual Delay
1	0	Delayed Release
0	1	Delayed Operate
0	0	One Shot

MODE DEFINITION: (See ITEM 4)

Dual Delay Mode

This is the Default Mode when the inputs A&B are left unprogrammed. The function of the Dual Delay mode is to provide a time delay on both the turn-on and turn-off of the output. Once turned on, the output will remain on as long as the trigger input is logic "0". Once turned off, the output will remain off as long as the trigger input is a logic "1".

Delayed Operate Mode

This mode causes a retriggerable delay in turning the output on in response to a negative edge at the trigger input. The output is turned off without delay in response to a positive transition at the trigger input.

Delayed Release Mode

This mode causes a retriggerable delay in turning off the output whenever there is a positive transition at the trigger input. The output is turned on without delay in response to a negative transition at the trigger input.

One-Shot Mode

In this mode, the chip functions like a retriggerable monostable multi-vibrator. The output is turned on whenever there is a negative transition at the trigger input. At the end of the programmed delay, the output is turned off automatically. If there is a negative transition at the trigger input before the delay is over, the delay is restarted. A positive transition at the trigger input has no effect on the output in this mode.

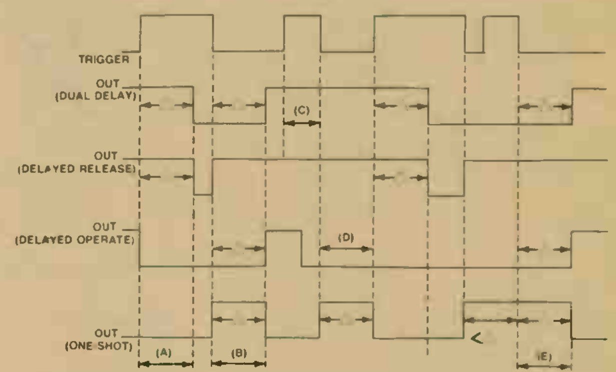
LS7210 276-1307

Output

The output is an open drain FET. To obtain proper switching of the output between logic "0" and "1" levels, an external pull down resistor to V_{DD} must be used. If the output is used only as a current source, no such pull down is needed. The output is logically inverted with respect to the trigger input.

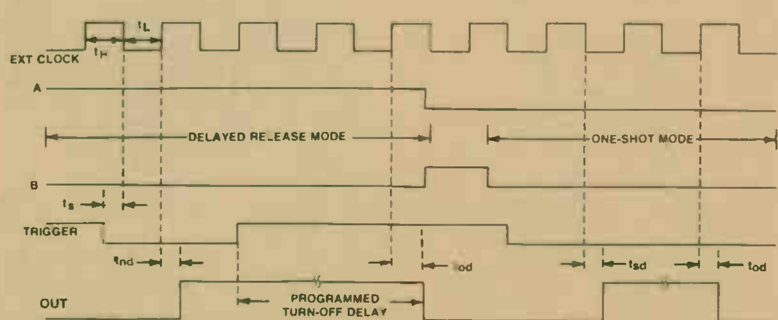
SWITCHING CHARACTERISTICS:

Oscillator Frequency	(f_{osc})	.01 Hz	TO	100kHz
External Clock Frequency	(f_{ext})	DC	TO	160kHz
External Clock Positive Pulse Width	(t_H)			3us
External Clock Negative Pulse Width	(t_L)		—	3us
A, B and Trigger Input Set-Up Time	(t_S)	—	200 TO	300ns
EXT Clock to Output Delay (turn-on delay in delayed release mode and turn-off delay in delayed operate mode)	(t_{nd})	—	700 TO	1000ns
EXT Clock to Output Delay at the End of Time Out	(t_{od})	—	1 TO	1.6 us
EXT Clock to Output Delay (turn-on Delay in One Shot Mode)	(t_{sd})	—	400 TO	600ns



Item 4 — Mode Definition Timing Diagram

A. Turn-off delay in "Dual Delay" and "Delayed Release" mode.
B. Turn-on delay in "Dual Delay" and "Delayed Operate" mode, one-shot period in "one shot" mode.
C. Output remains on in "Delayed Release" and "Dual Delay" modes due to negative "trigger" transition before the turn-off delay is over.
D. Output remains off in "Delayed Operate" mode due to positive trigger transition before the turn-on delay is over.
E. One-Shot period extended by re-triggering.
△ is the programmed delay.

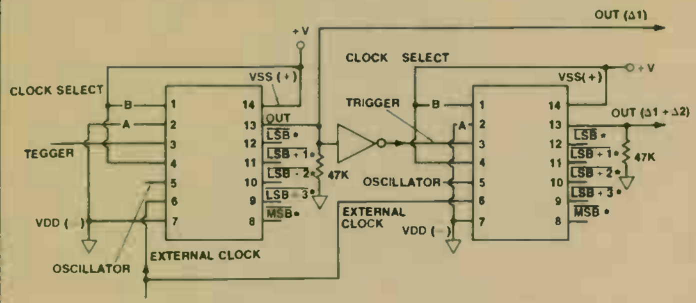


Timing Diagram

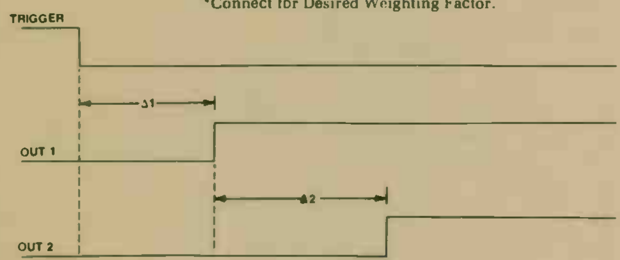
1. A, B and trigger inputs are clocked into the input latches with the negative edge of the ext. clock.
2. In all modes except One-Shot, the output changes with the positive transition of the ext. clock. In One-Shot mode the output is turned on with the negative transition and turned off with the positive transition of the ext. clock.

LS7210 276-1307

TYPICAL APPLICATIONS

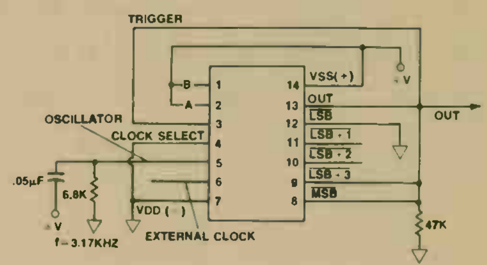


*Connect for Desired Weighting Factor.

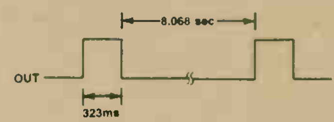


Sequential Turn On

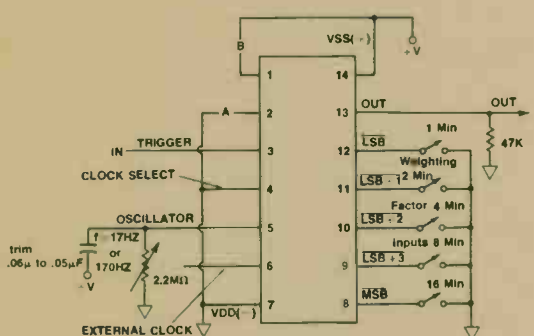
Output of LS7210 is open drain FET. Some load to ground is required to cause output to go negative.



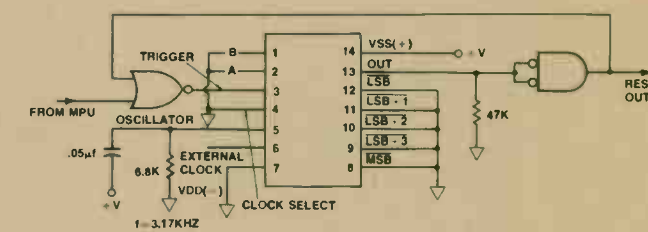
Inputs A, B, in dual-delay mode.
For symmetrical flasher tie pins 8, 9, 10, 11 & 12 to fixed weighting factor.

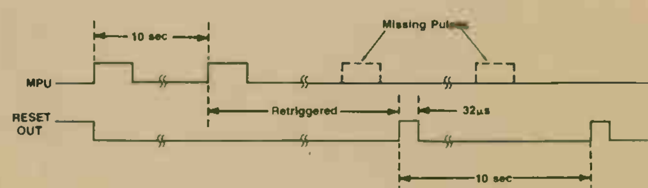


Unsymmetrical Flasher



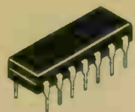
LS7210 In Delayed Operate Mode to Achieve One to 31 Minute Delay





Auto Reset Watchdog Circuit

Inputs A, B are in One Shot mode.
In this application an output is generated whenever the periodic sampling signal from the MPU is interrupted.



QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipiation. It provides the basic functions used in the implementation of digital integrated circuit systems.

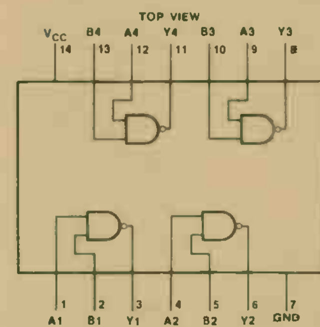
For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

PIN CONNECTION



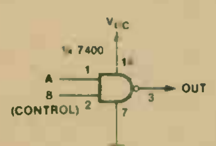
ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = −12 mA)	−1.5V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V)	40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V)	−1.6 mA
Operating Temperature	0 to +70°C

TRUTH TABLE

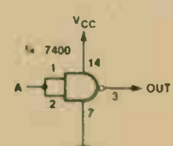
$Y = \overline{AB}$

TYPICAL APPLICATIONS



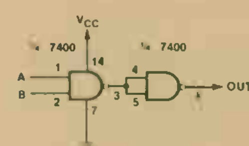
A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

Control Gate



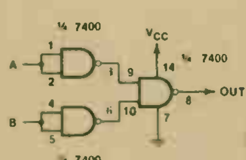
A	OUT
L	H
H	L

Inverter



A	B	OUT
L	L	L
L	H	L
H	L	L
H	H	H

AND Gate

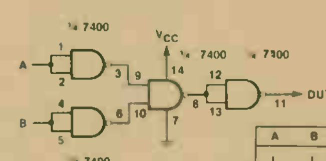


A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	H

OR Gate

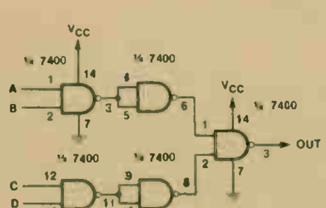
A	B	C	D	OUT
X	X	H	H	H
H	H	X	X	H
H	H	H	H	H

AND-OR Gate



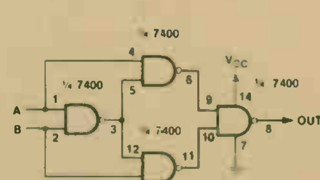
A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

NOR Gate



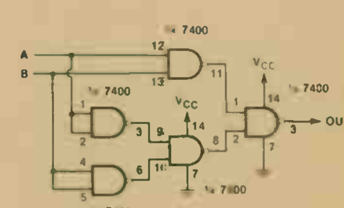
A	B	C	D	OUT
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

4-Input NAND Gate



A	B	OUT
L	L	L
L	H	H
H	L	H
H	H	L

Exclusive-OR Gate

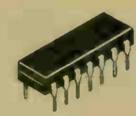


A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	H

Exclusive-NOR Gate

7404
276-1802

HEX INVERTER



GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways of handling unused inputs are:

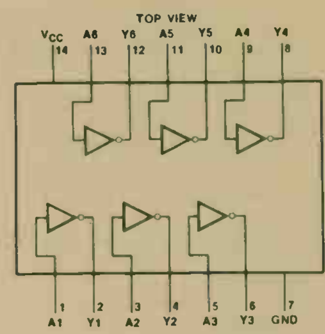
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC} .... 5.25 V
Input High Voltage .... 2.0 V
Input Low Voltage .... 0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = − 12 mA) .... − 1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V) .... 40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V) .... − 1.6 mA
Operating Temperature .... 0 to + 70°C

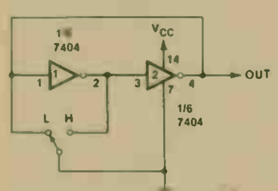
PIN CONNECTION



TRUTH TABLE

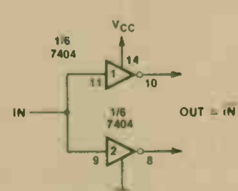
$Y = \overline{A}$

TYPICAL APPLICATIONS



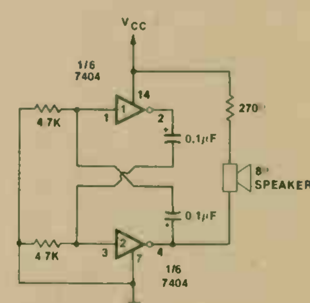
Output follows switch position

Bouncefree Switch



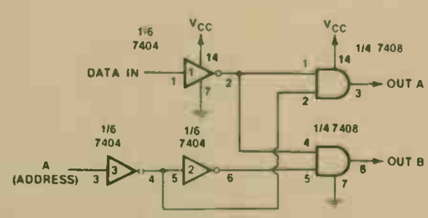
Allows one signal to control two or more inputs

Universal Expander



Output tone is 4kHz

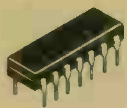
Audio Oscillator



This circuit steers the input bit to the output selected by the address

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways at handling unused inputs are:

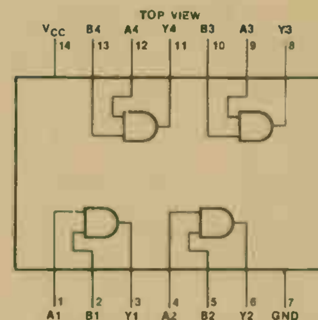
(1) Connect unused inputs to V_{CC}. For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.

(2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC} .... 5.25 V
Input High Voltage .... 2.0 V
Input Low Voltage .... 0.8 V
Input Clamp Diode Voltage (V_{CC} = 5.0 V, I_{IN} = −12 mA) .... −1.5 V
Input High Current (V_{CC} = Max., V_{IN} = 2.4 V) .... 40 μA
Input Low Current (V_{CC} = Max., V_{IN} = 0.4 V) .... −1.6 mA
Operating Temperature .... 0 to +70°C

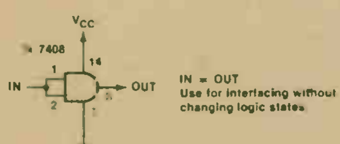
PIN CONNECTION



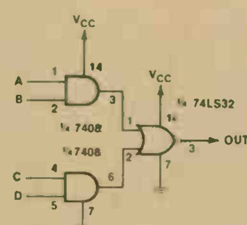
TRUTH TABLE

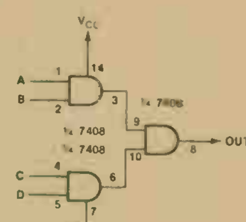
Y = AB

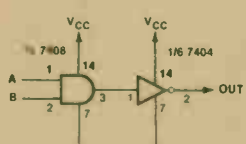
TYPICAL APPLICATIONS



AND Gate Buffer







A	B	OUT
L	L	H
L	H	H
H	L	H
H	H	L

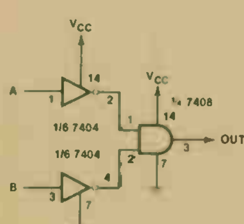
NAND Gate

A	B	C	D	OUT
X	X	X	X	H
L	L	X	X	L
L	L	L	L	L

AND-OR-Invert Gate

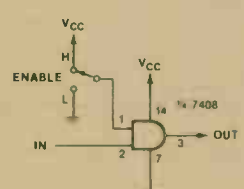
A	B	C	D	OUT
H	H	H	H	H
X	X	X	X	L

4-Input AND Gate



A	B	OUT
L	L	H
L	H	L
H	L	L
H	H	L

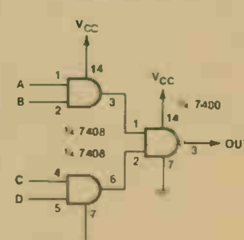
NOR Gate



IN	E	OUT
L	L	L
L	H	L
H	L	L
H	H	H

E = ENABLE

Digital Transmission Gate

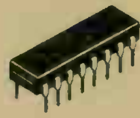


A	B	C	D	OUT
H	H	H	H	L
X	X	X	X	H

4-Input NAND Gate

7447
276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER

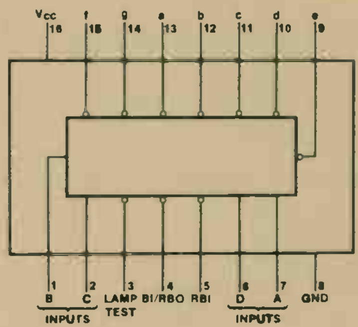


GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250μA.

PIN CONNECTION

TOP VIEW



FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 — 5.25 V
Continuous Voltage at Outputs a-g	Max. 15 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage BI/RBO	Max. 0.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

TRUTH TABLE

DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	L	L	L	L	L	L	H	
1	H	X	L	L	L	H	H	H	L	L	H	H	H	H	
2	H	X	L	L	H	L	H	L	L	H	L	L	H	L	
3	H	X	L	L	H	H	H	L	L	L	L	H	H	L	
4	H	X	L	H	L	L	H	H	L	L	H	H	L	L	
5	H	X	L	H	L	H	H	L	H	L	L	H	L	L	
6	H	X	L	H	H	L	H	H	H	L	L	L	L	L	
7	H	X	L	H	H	H	H	L	L	L	H	H	H	H	
8	H	X	H	L	L	L	H	L	L	L	L	L	L	L	1
9	H	X	H	L	L	H	H	L	L	L	H	H	L	L	
10	H	X	H	L	H	L	H	H	H	H	L	L	H	L	
11	H	X	H	L	H	H	H	H	H	L	L	H	H	L	
12	H	X	H	H	L	L	H	H	L	H	H	H	L	L	
13	H	X	H	H	L	H	H	L	H	H	L	H	L	L	
14	H	X	H	H	H	L	H	H	H	H	L	L	L	L	
15	H	X	H	H	H	H	H	H	H	H	H	H	H	H	
BI	X	X	X	X	X	X	L	H	H	H	H	H	H	H	2
RBI	H	L	L	L	L	L	L	H	H	H	H	H	H	H	3
LT	L	X	X	X	X	X	H	L	L	L	L	L	L	L	4

H = High Level. L = Low Level. X = Irrelevant

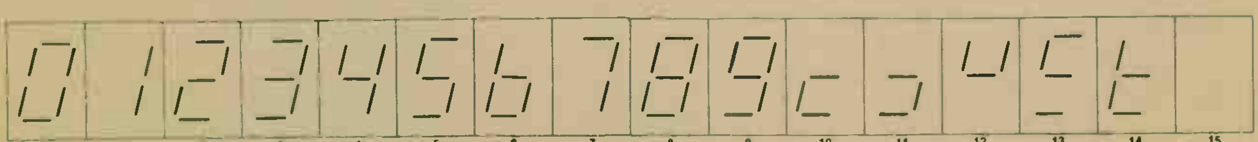
Notes: 1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RBI) must be open or high, if blanking of a decimal zero is not desired.

2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are H regardless of the level of any other input.

3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go H and the ripple-blanking output (RBO) goes to a low level (response condition).

4. When the blanking input/ripple blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are L.

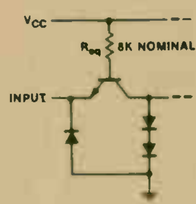
† BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).



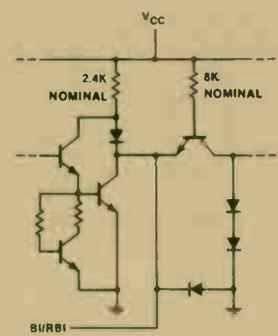
Numerical Designations and Resultant Displays

7447 276-1805

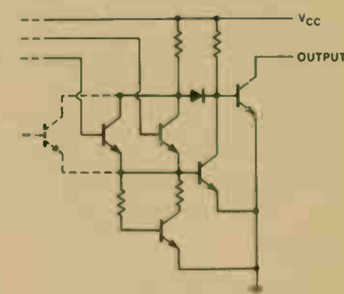
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

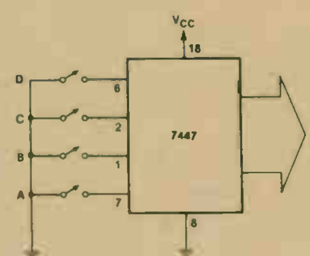


BI/RBO Input

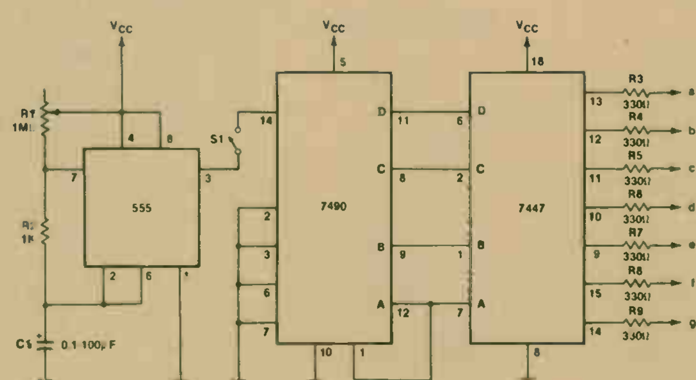


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

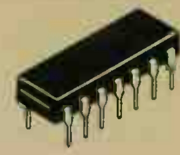


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1

0-9 Second/Minute Timer

7490
276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

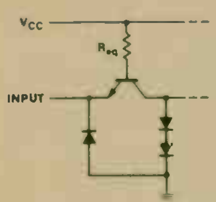
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

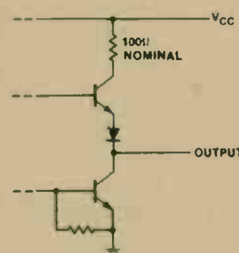
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μA
Low Level Output Current (Max)	16 mA
V_{CC} to Ground	−0.5 to +7.0 V
Voltage Applied to Outputs (Output High)	−0.5 to +5.5 V

INPUT/OUTPUT EQUIVALENTS



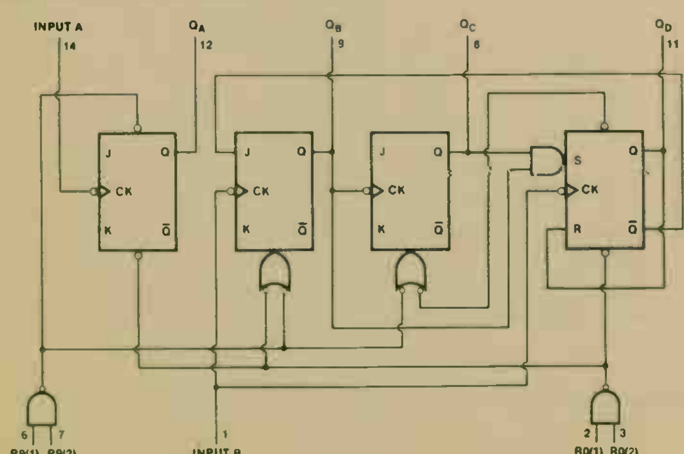
INPUT	R_{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

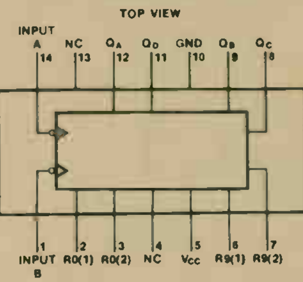


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

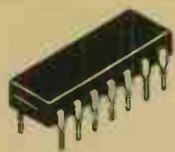
COUNT	OUTPUTS			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:
(A) Output Q_A is connected to input B for BCD count.
(B) Output Q_D is connected to input A for bi-quinary count.



QUAD LINE DRIVER

MC1488
276-2520

GENERAL DESCRIPTION

The 1488 is a monolithic quad line driver designed to interface data terminal equipment with data communications equipment in conformance with the specifications of EIA Standard No. RS-232C.

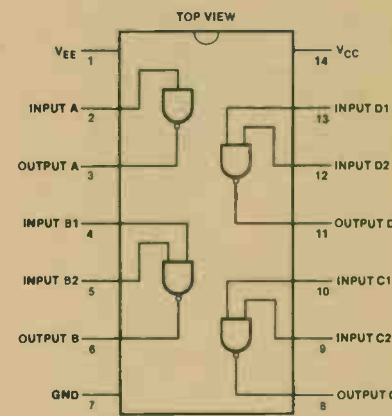
FEATURES

- Current Limited Output
  ±10 MA typ
- Power-Off Source Impedance
  300 Ohms min
- Simple Slew Rate Control with External Capacitor
- Flexible Operating Supply Range

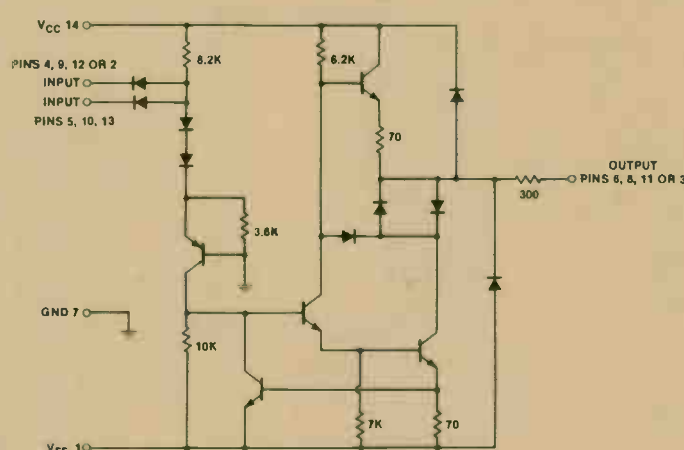
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	15 V
(V_{EE})	− 15 V
Output Signal Voltage (VO)	±15 V
Power (PD)	1 W
Input Current-Low Logic State (V_{IL} = 0) (See Fig. 8)	1.6 mA
Input Current-High Logic State (V_{IH} = 5.0V) (See Fig. 8)	10 μA
Output Resistance (V_{CC} = V_{EE} = 0/Vol = ±2.0V (See Fig. 11)	300Ω
Operating Temperature Range (TA)	0°C To + 75°C
Storage Temperature Range (T_{stg})	−65°C To +175°C

PIN CONNECTION



INTERNAL CIRCUIT (¼ of Circuit Shown)



TYPICAL CHARACTERISTICS

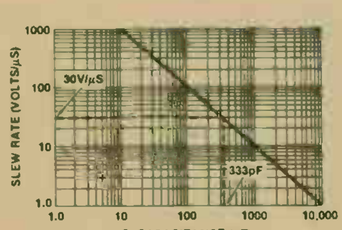


Figure 1—Slew Rate vs Capacitance for I_{SC} = 10mA

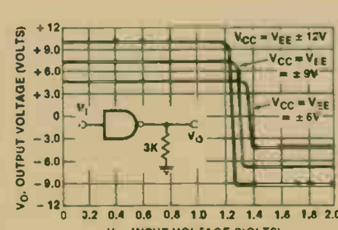


Figure 3—Transfer Characteristics vs Power-Supply Voltage

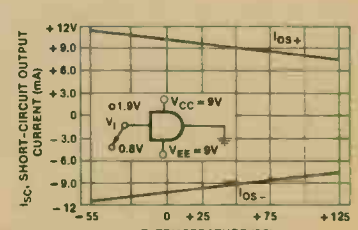


Figure 4—Short-Circuit Output Current vs Temperature

MC1488 276-2520

TYPICAL CHARACTERISTICS (Cont'd)

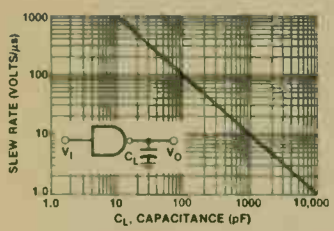


Figure 5—Output Slew Rate vs Load Capacitance

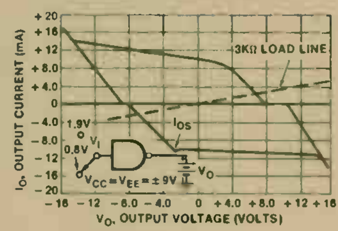


Figure 6—Output Voltage and Current-Limiting Characteristics

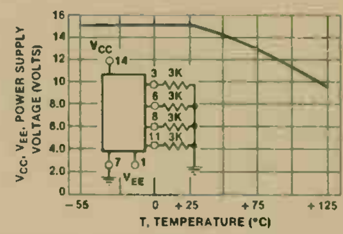
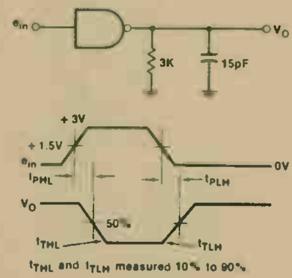


Figure 7—Maximum Operating Temperature vs Power-Supply Voltage



Switching Response

TEST CIRCUITS

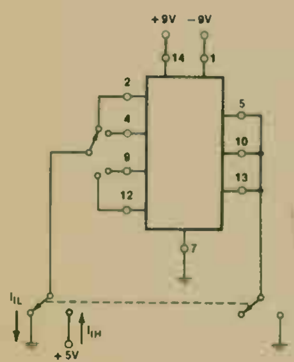


Figure 8 — Input Current

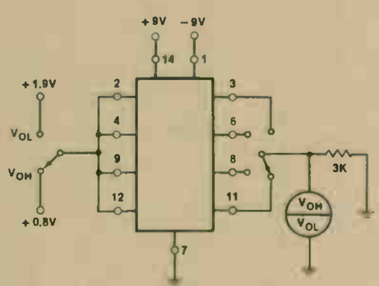


Figure 9— Output Voltage

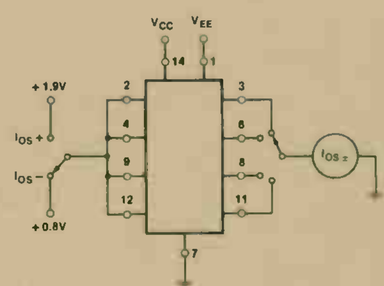


Figure 10— Output Short-Circuit Current

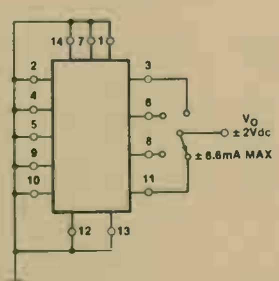


Figure 11— Output Resistance (Power-Off)

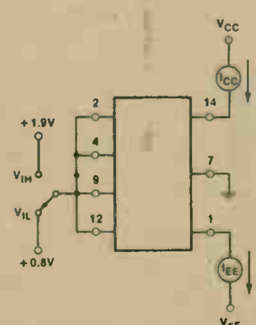


Figure 12— Power-Supply Currents

MC1488 276-2520

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) RS232C specification details the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS232C defined levels. The RS232C requirements as applied to drivers are discussed herein.

The required driver voltages are defined as between 5 and 15-volts in magnitude and are positive for a logic "0" and negative for a logic "1". These voltages are so defined when the drivers are terminated with a 3000 to 7000-ohm resistor. The 1488 meets this voltage requirement by converting a DTL/TTL logic level into RS232C levels with one stage of inversion.

The RS232C specification further requires that during transitions, the driver output slew rate must not exceed 30 volts per microsecond. The inherent slew rate of the 1488 is much too fast for this requirement. The current limited output of the device can be used to control this slew rate by connecting a capacitor to each drive output. The required capacitor can be easily determined by using the relationship $C = I_{OS} \times \Delta T/\Delta V$ from which Figure 1 is derived. Accordingly, a 330-pF capacitor on each output will guarantee a worst case slew rate of 30 volts per microsecond.

The interface driver is also required to withstand an accidental short to any other conductor in an interconnecting cable. The worst possible signal on any conductor would be another driver using a plus or minus 15-volt, 500-mA source. The 1488 is designed to indefinitely withstand such a short to all four outputs in a package as long as the power-supply voltages are greater than 9.0 volts (i.e., $V_{CC} \geq 9.0$ V; $V_{EE} \leq -9.0$ V). In some power-supply designs, a loss of system power causes a low impedance on the power-supply outputs. When this occurs, a low impedance to ground would exist at the power inputs to the 1488 effectively shorting the 300-ohm output resistors to ground. If *all four outputs* were then shorted to plus or minus 15 volts, the power dissipation in these resistors would be excessive. Therefore, if the system is designed to permit low impedances to ground at the power-supplies of the drivers, a diode should be placed in each power-supply lead to prevent overheating in this fault condition. These two diodes, as shown in Figure 2, could be used to decouple all the driver packages in a a system. (These same diodes will allow the 1488 to withstand momentary shorts to the ±25-volt limits specified in the earlier Standard RS232B.) The addition of the diodes also permits the 1488 to withstand faults with power-supplies of less than the 9.0 volts stated above.

The maximum short-circuit current allowable under fault conditions is more than guaranteed by the previously mentioned 10 mA output current limiting.

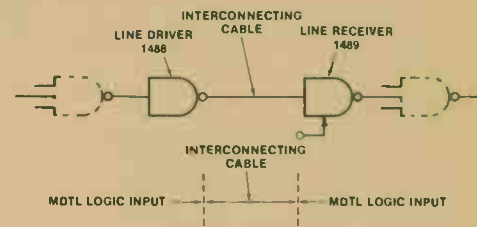
OTHER APPLICATIONS

The 1488 is an extremely versatile line driver with a myriad of possible applications. Several features of the drivers enhance this versatility:

Output Current Limiting—this enables the circuit designer to define the output voltage levels independing of power-supplies and can be accomplished by diode clamping of the output pins. Figure 14 shows the 1488 used as a DTL to MOS translator where the high-level voltage output is clamped one diode above ground. The resistor divider shown is used to reduce the output voltage below the 300 mV above ground MOS input level limit.

Power-Supply Range—as can be seen from the schematic drawing of the drivers, the postive and negative driving elements of the device are essentially independent and do not require matching power-supplies. In fact, the positive supply can vary from a minimum seven volts (required for driving the negative pulldown section) to the maximum specified 15 volts. The negative supply can vary from approximately −2.5 volts to the minimum specified −15 volts. The 1488 will drive the output to within 2 volts of the postive or negative supplies as long as the current output limits are not exceeded. The combination of the current-limiting and supply-voltage features allow a wide combination of possible outputs within the same quad package. Thus if only a portion of the four drivers are used for driving RS232C lines, the remainder could be used for DTL to MOS or even DTL or DTL translation. Figure 15 shows one such combination.

TYPICAL APPLICATIONS



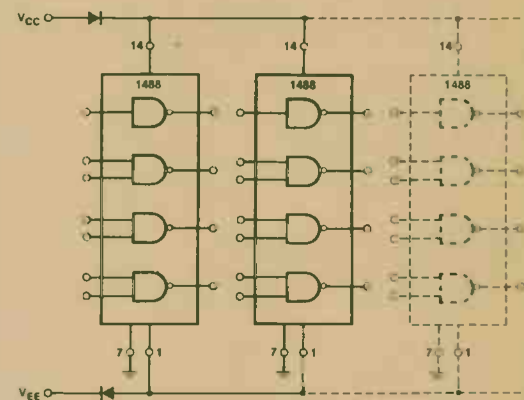


Figure 2—Power Supply Protection to Meet Power-Off Fault Conditions

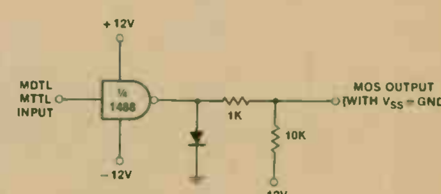


Figure 14—MDTL/MTTL-to-MOS Translator

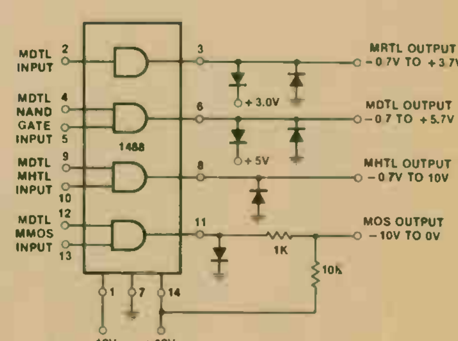
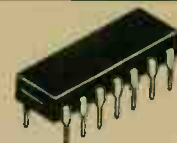


Figure 15—Logic Translator Applications

MC1489
276-2521

QUAD LINE RECEIVER



GENERAL DESCRIPTION

The 1489 monolithic quad line receiver is designed to interface data terminal equipment with data communications equipment in conformance with specificiations of EIA Standard No. RS-232C.

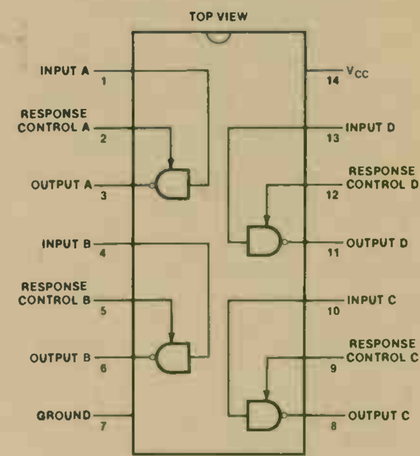
FEATURES

- Input Resistance—3.0 k to 7.0 K ohms
- Input Signal Range—±30 Volts
- Input Threshold Hysteresis Built In
- Response Control
  - a) Logic Threshold Shifting
  - b) Input Noise Filtering

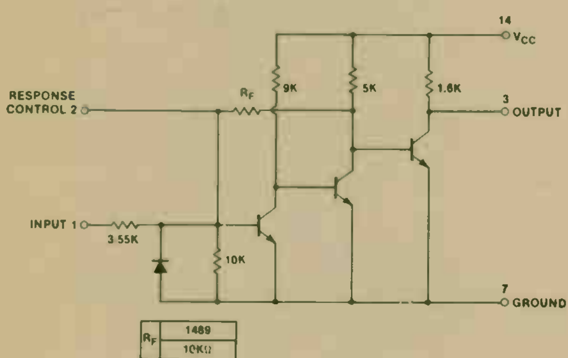
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC})	10 V
Input Voltage Range (V_{IR})	±30 V
Output Load Current (I_L)	20 mA
Power Dissipation (P_D)	1 W
Operating Temperature Range (TA)	0°C To +75°C
Storage Temperature Range (T_{stg})	−65°C To +175°C

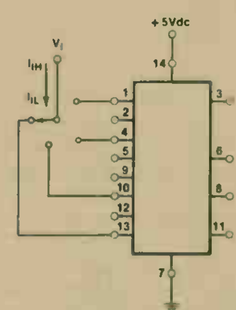
PIN CONNECTION



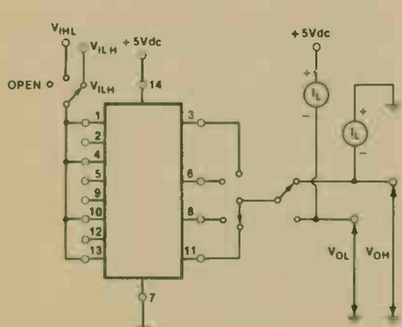
INTERNAL CIRCUIT
(¼ of Circuit Shown)



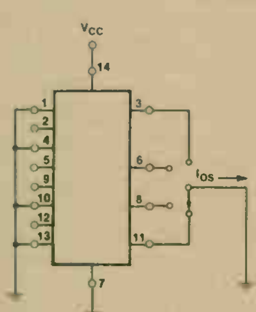
TEST CIRCUITS



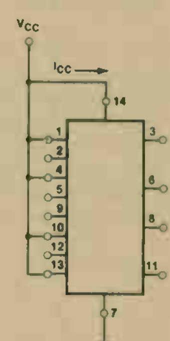
Input Current



Output Voltage and Input Threshold Voltage



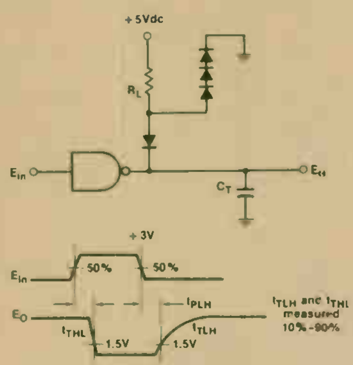
Output Short-Circuit Current



Power-Supply Current

MC1489 276-2521

TYPICAL CHARACTERISTICS



C_T = 15pF = total parasitic capacitance, which includes probe and wiring capacitances

Switching Response

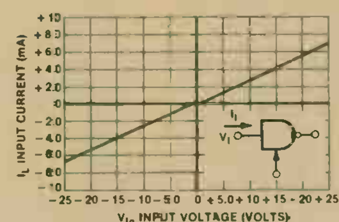


Figure 1—Input Current

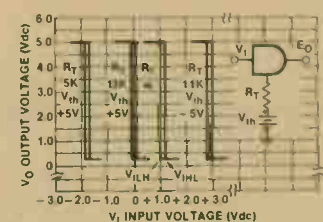


Figure 2—Input Threshold Voltage Adjustment

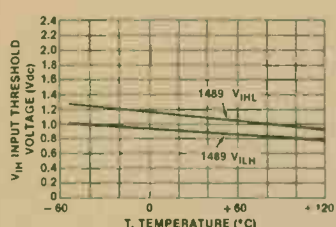


Figure 3—Input Threshold Voltage vs Temperature

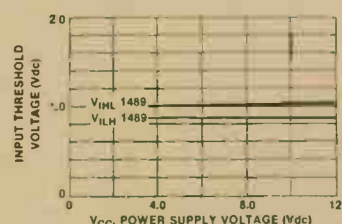


Figure 4—Input Threshold vs Power—Supply Voltage

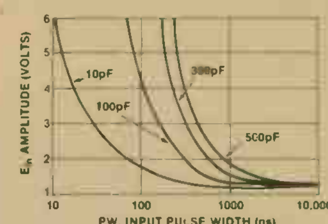


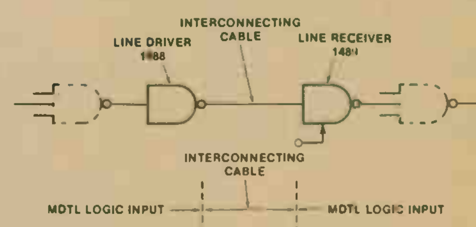
Figure 5—Turn-on Threshold vs Capacitance from Response Control Pin to Gnd

APPLICATIONS INFORMATION

The Electronic Industries Association (EIA) has released the RS-232C specification detailing the requirements for the interface between data processing equipment and data communications equipment. This standard specifies not only the number and type of interface leads, but also the voltage levels to be used. The 1488 quad driver and its companion circuit, the 1489 quad receiver, provide a complete interface system between DTL or TTL logic levels and the RS-232C defined levels. The RS-232C requirements as applied to receivers are discussed here. The required input impedance is defined as between 3000 ohms and 7000 ohms for input voltages between 3.0 and 25 volts in magnitude; and any voltage on the receiver input in an open circuit condition must be less than 2.0 volts in magnitude. The 1489 circuits meet these requirements with a maximum open circuit voltage of one V_{BE}.

The receiver shall detect a voltage between −3.0 and −25 volts as a logic "1" and input between +3.0 and +25 volts as a logic "0". On some interchange leads, an open circuit or power "OFF" condition (300 ohms or more to ground) shall be decoded as an "OFF" condition or logic "1". For this reason, the input hysteresis thresholds of the 1489 circuits are all above ground. Thus an open or grounded input will cause the same output as a negative of logic "1" input.

TYPICAL APPLICATIONS



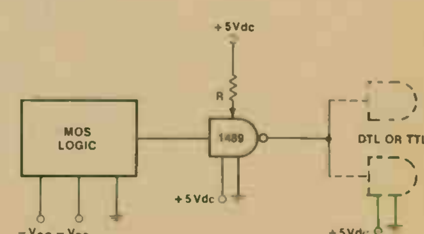
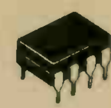


Figure 7—Typical Translator Application—MOS to DTL or TTL

TLC555
276-1718

TIMER



GENERAL DESCRIPTION

The TLC555 is a monolithic timing circuit fabricated using the Lin CMOS™ process. Due to its high-impedance inputs (typically $10^{12}\Omega$), it is capable of producing accurate time delays and oscillations while using less expensive, smaller timing capacitors. The TLC555 achieves both monostable (using one resistor and one capacitor) and astable (using two resistors and one capacitor) operation. In addition, 50% duty cycle astable operation is possible using only a single resistor and one capacitor. The Lin CMOS™ process allows the TLC555 to operate at frequencies up to 2 MHz and be fully compatible with CMOS, TTL, and MOS logic. It also provides very low power consumption (typically 1 mW at V_{DD} = 5V) over a wide range of supply voltages ranging from 2 volts to 18 volts.

Threshold and trigger levels are normally two-thirds and one-third respectively of V_{DD}. These levels can be altered by use of the control voltage terminal. When the trigger input falls below trigger level, the flip-flop is set and the output goes high. If the trigger input is above the trigger level and the threshold input is above the threshold level, the flip-flop is reset and the output is low. The reset input can override all other inputs and can be used to initiate a new timing cycle. When the reset input goes low, the flip-flop is reset and the output goes low. Whenever the output is low, a low impedance path is provided between the discharge terminal and ground.

While the complementary CMOS OUTPUT is capable of sinking over 100 mA and sourcing over 10 mA, the TLC555 exhibits greatly reduced supply current spikes during output transitions.

FEATURES

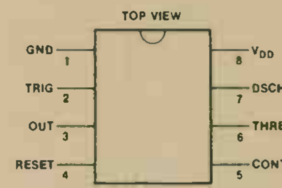
- Very low power consumption (1 mW typical at V_{DD} = 5 V)
- Capable of very high-speed operation (2 mHz in a stable operation)
- Complementary CMOS output capable of swinging rail to rail
- High output-current capability (sink 100 mA typical) (soucre 10 mA typical)
- Output fully CMOS, TTL, and MOS-compatible
- Low supply current reduces spikes during output transitions
- High impedance input $10^{12}\Omega$ typical)
- Single supply operation from 2 to 18 volts

ABSOLUTE MAXIMUM RATINGS

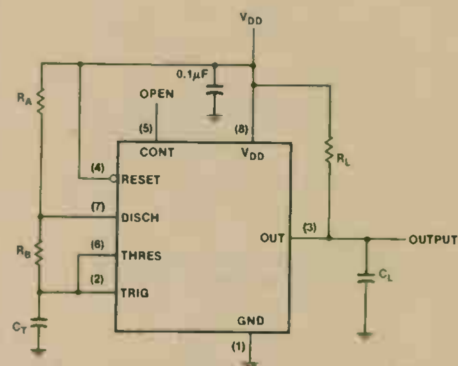
Supply Voltage (V_{DD}) (See Note 1)	18 V
Input Voltage Range (Any Input)	−03 V To 18 V
Power Dissipation (mW)	600mW
Operating Temperature Range	0°C To 70°C
Storage Temperature Range	−65°C To 150°C

NOTES: 1. All voltage values are with respect to network ground terminal.

PIN CONNECTION

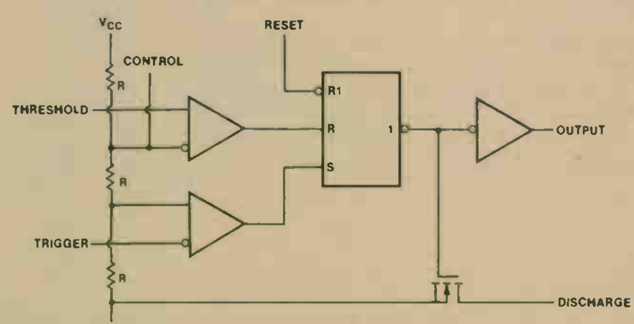


TYPICAL APPLICATION



Circuit for Astable Operation

BLOCK DIAGRAM



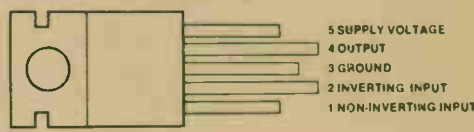
8 WATT AUDIO POWER AMPLIFIER

383
276-703

GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

PIN CONNECTION



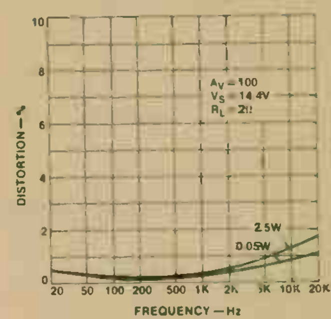
FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V—20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

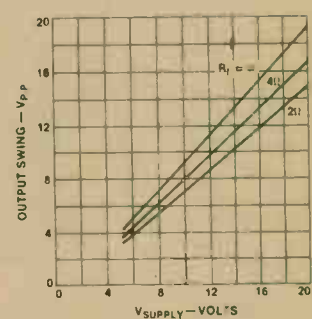
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	±0.5V
Power Dissipation	15W
Operating Temperature	0 to +70°C
Storage Temperature	−60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

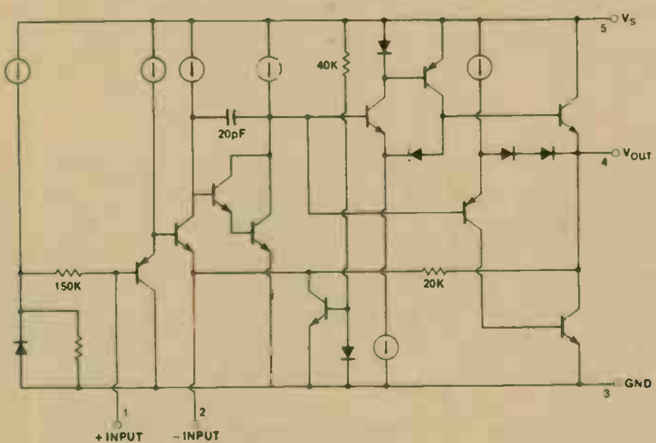


Distortion vs Frequency

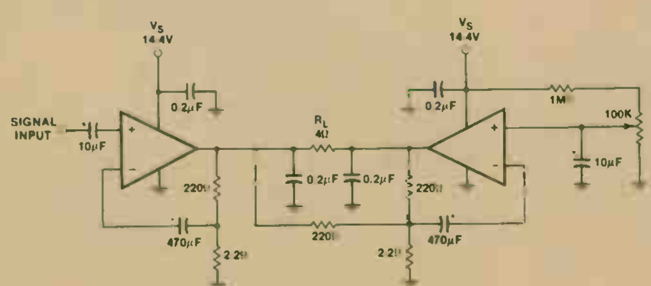


Output Swing vs Supply Voltage

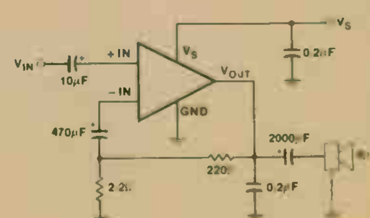
INTERNAL CIRCUIT



TYPICAL APPLICATIONS



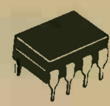
16W Bridge Amplifier



Basic Audio Amp

386
276-1731

LOW VOLTAGE AUDIO POWER AMPLIFIER

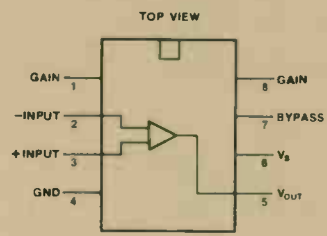


GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

PIN CONNECTION



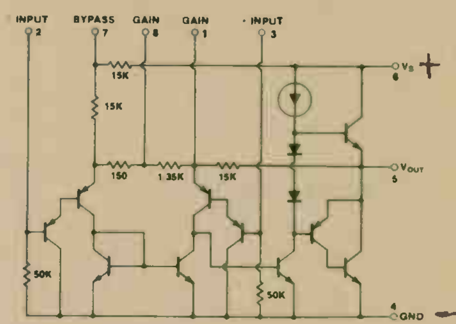
FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

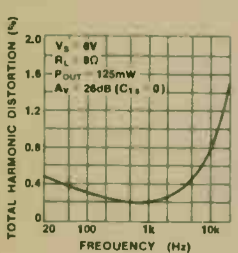
INTERNAL CIRCUIT



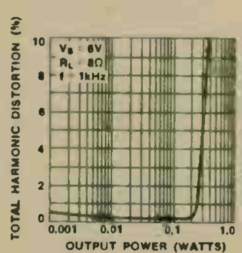
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

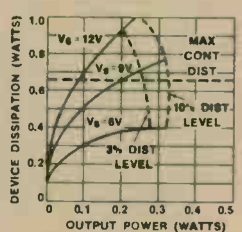
TYPICAL CHARACTERISTICS



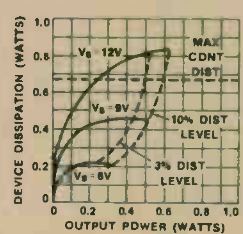
Distortion vs Frequency



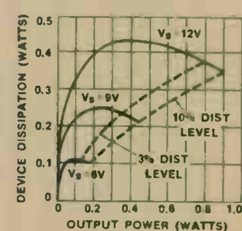
Distortion vs Output Power



Device Dissipation vs Output Power—4Ω Load

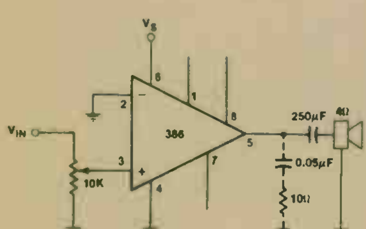


Device Dissipation vs Output Power—8Ω Load

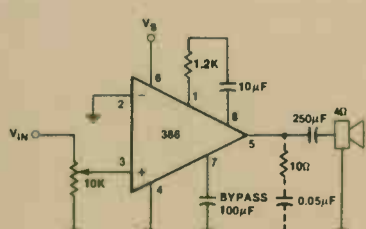


Device Dissipation vs Output Power—16Ω Load

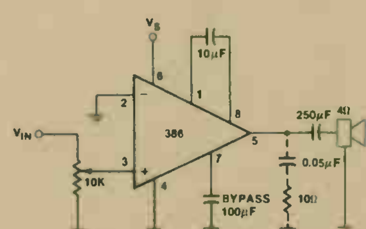
TYPICAL APPLICATIONS



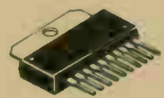
Amplifier with Gain = 20 (Minimum Parts)



Amplifier with Gain = 50



Amplifier with Gain = 200



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

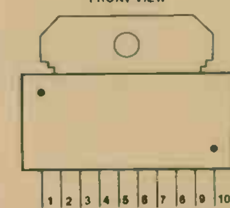
FEATURES

- Low distortion
  THD=0.15% (Typ.) (@ P_{OUT}=1W, G_V=55dB)
  THD=0.07% (Typ.) (@ P_{OUT}=1W, G_V=44dB)
- Operating supply voltage range: V_{CC}=9~18V
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

ABSOLUTE MAXIMUM RATINGS

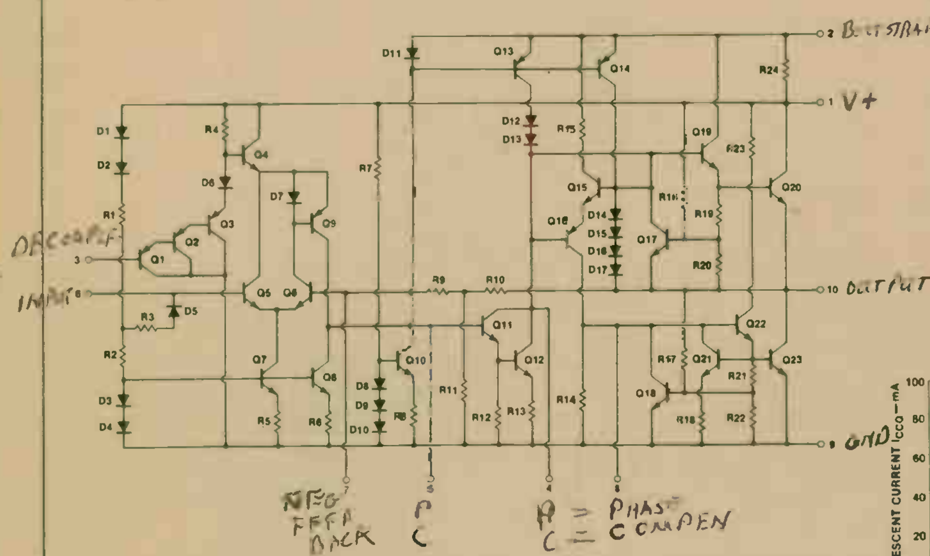
Operating Supply Voltage(V_{CC})	18V
Quiescent Supply Voltage (V_{CCQ})	25V
Output Peak Current (I_O)	4.5A
Quiescent Current (I_{CCQ})	80mA
Operating Temperature	−20 to +75°C
Storage Temperature	−55 to +150°C

PIN CONNECTION

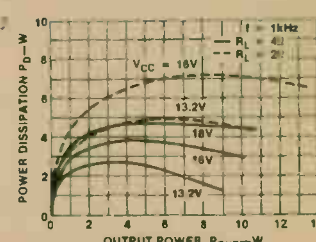


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

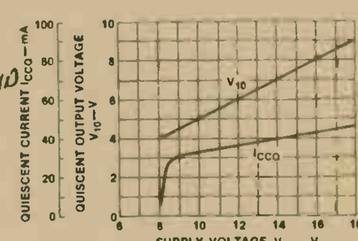
INTERNAL CIRCUIT



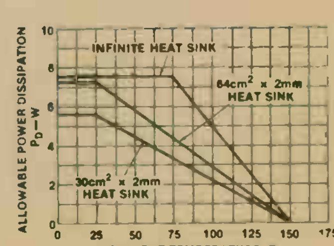
TYPICAL CHARACTERISTICS



Power Dissipation vs Output Power

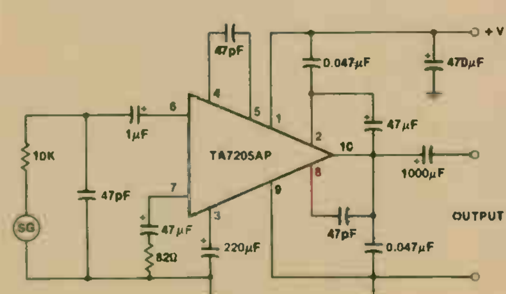


Quiescent Current and Output Voltage vs Supply Voltage



Allowable Power Dissipation vs Ambient Temperature

TYPICAL APPLICATION



5 Watt Audio Amplifier

TDA1520A
276-1305

20W HI-FI AUDIO AMPLIFIER

GENERAL DESCRIPTION

The TDA1520A is a monolithic integrated hi-fi audio power amplifier designed for asymmetrical or symmetrical power supplies. The circuit can deliver output power up to 20 watts into 4 and 8 ohm speakers and is intended for use in audio and television.

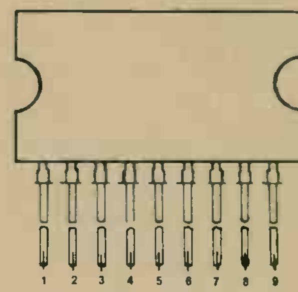
FEATURES

- Low input offset voltage
- Output stage with low cross-over distortion
- A.C. short-circuit protected
- Very low internal thermal resistance
- Thermal protection
- Very low intermodulation distortion
- Very low transient intermodulation distortion

ABSOLUTE MAXIMUM RATINGS

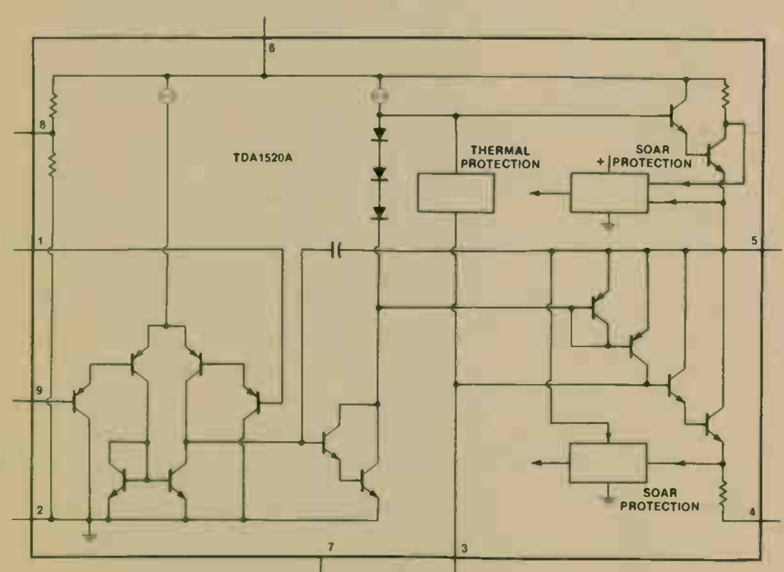
Supply voltage (VP) .... 50 V
Total quiescent current at Vp = 33 V (Itot) .... 70 mA
Output power at d_{tot} = 0.5% sine-wave power
Vp = 33 V; R_L = 4 Ω (PO) .... 20 W
Vp = 42 V; R_L = 8 Ω (PO) .... 20 W
Closed-loop voltage gain (externally determined) (Gc) .... 30 dB
Input resistance (externally determined by $R_{8\text{-}1}$) (Ri) .... 20 kΩ
Signal-to-noise ratio at P_o = 50 mW (S/N) .... 76 dB
Supply voltage ripple rejection at f = 100 Hz (RR) .... 60 dB

PIN CONNECTION



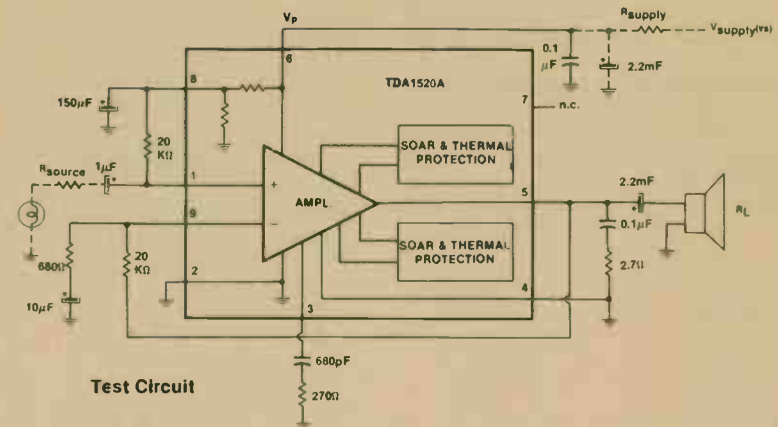
PIN	FUNCTION
1	Non-inverting input
2	Input ground (substrate)
3	Compensation
4	Negative supply (ground)
5	Output
6	Positive supply (V_p)
7	Not connected
8	Ripple rejection
9	Investing input (feedback)

BLOCK DIAGRAM



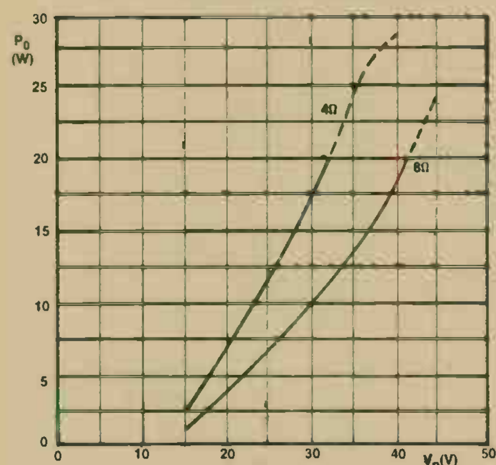
TDA1520A 276-1305

TYPICAL APPLICATION



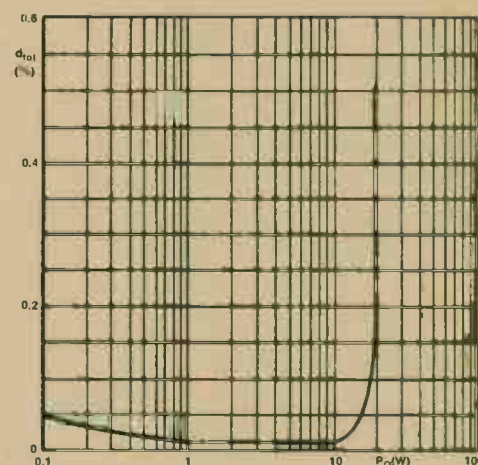
Test Circuit

TYPICAL CHARACTERISTICS

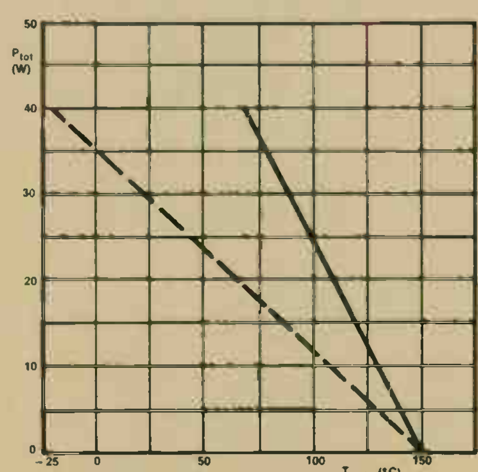


Output power (P_o) versus supply voltage (V_p) at f = 1 kHz, d_{tot} = 0.5%, G_v = 30 dB.

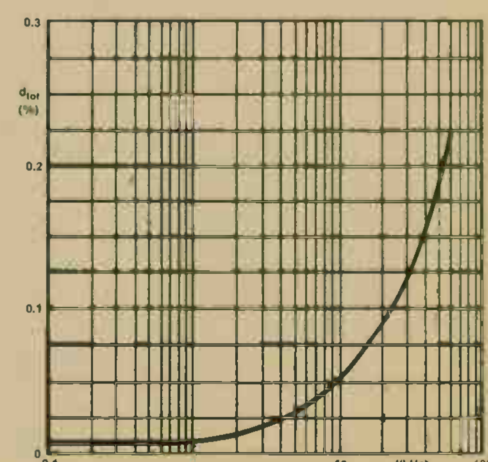
TYPICAL CHARACTERISTICS



Total harmonic distortion (d_{tot}) versus output power (P_o) at V_p = 33 V, R_L = 4 Ω, f = 1 kHz.



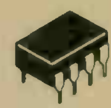
Power derating curves.
——— mounted on infinite heatsink.
– – – mounted on heatsink of 2,3 K/W.



Total harmonic distortion (d_{tot}) versus operating frequency (f) at V_p = 33 V, R_L = 4 Ω, P_o = 10 W (constant).

353
276-1715

WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™) technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

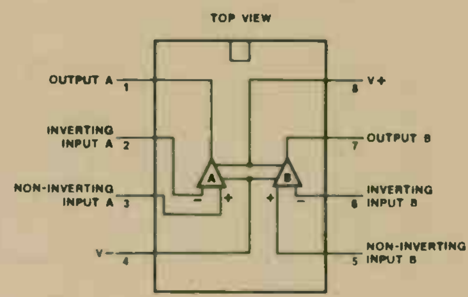
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50pA
- Low input noise voltage = $16nV/\sqrt{Hz}$
- Low input noise current = $0.01\ pA/\sqrt{Hz}$
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = $10^{12}\Omega$
- Low total harmonic distortion A_V = 10, R_L = 10k, V_O = 20 Vp-p, BW = 20 Hz—20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- fast settling time to 0.0% = 2μs

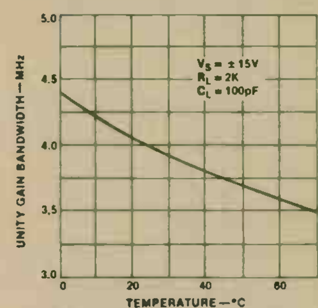
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±18V
Power Dissipation	500 mW
Differnetial Input Voltage	±30V
Input Voltage Range	±15V
Output Short Circuit Duration	Continuous
$T_{J(MAX)}$	115°C
Operating Temperature Range	0 to 70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

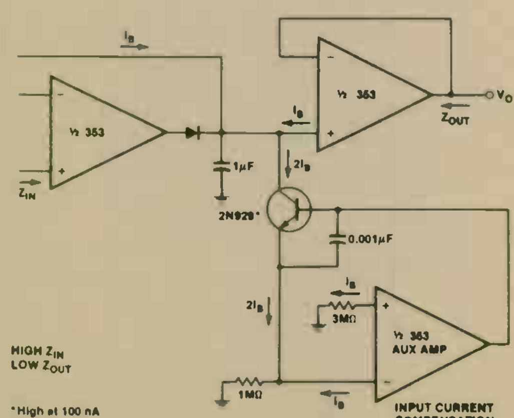


TYPICAL CHARACTERISTICS

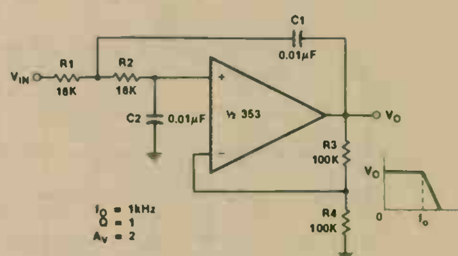


Unity Gain Bandwidth vs Temperature

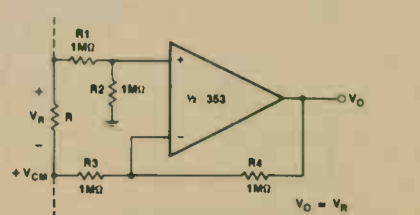
TYPICAL APPLICATIONS



Low Drift Peak Detector

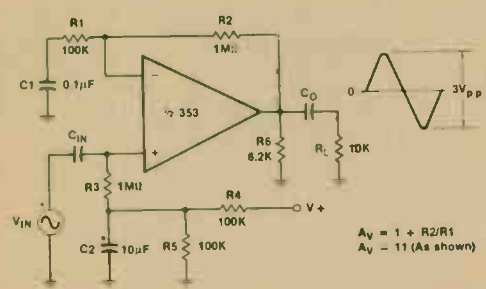


DC Coupled Low-Pass RC Active Filter

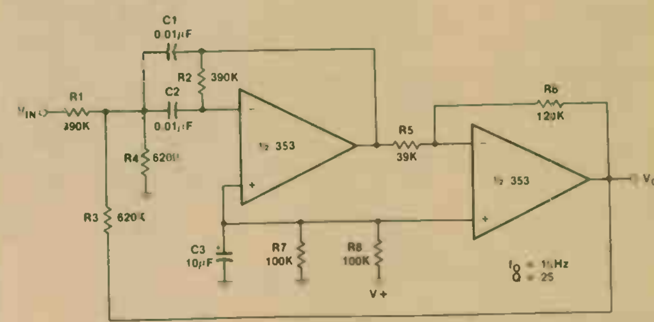


Ground Referencing A Differential Input Signal

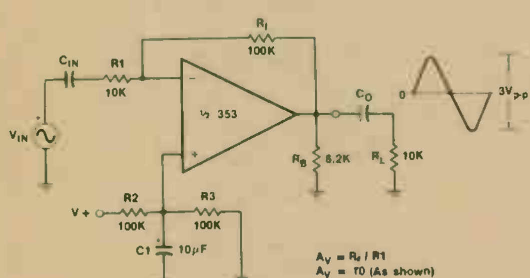
TYPICAL APPLICATIONS (Cont'd)



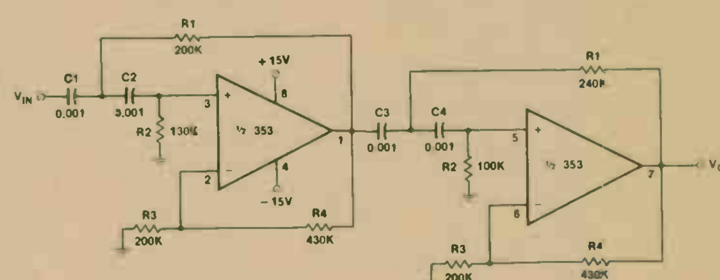
AC Coupled Non-Inverting Amplifier



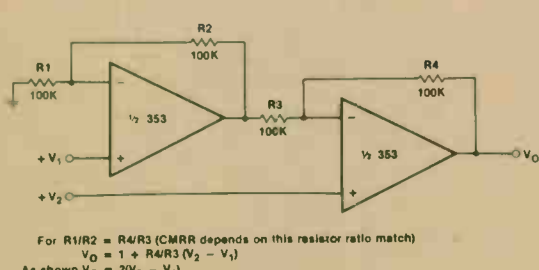
Bandpass Active Filter



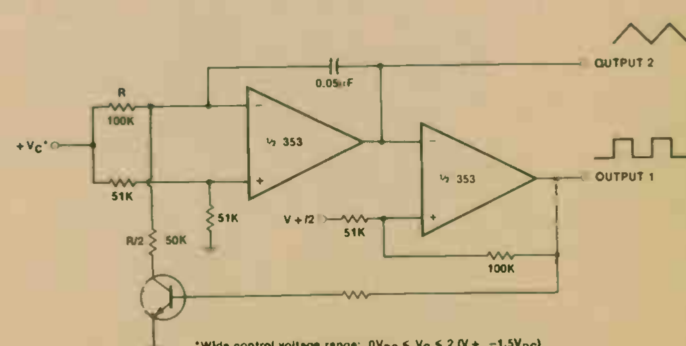
AC Coupled Inverting Amplifier



Fourth Order High Pass Butterworth Filter



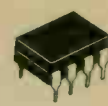
High Input Z, DC Differential Amplifier



Voltage Controlled Oscillator (VCO)

741
276-007

OPERATIONAL AMPLIFIER

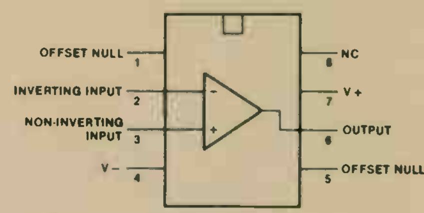


GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

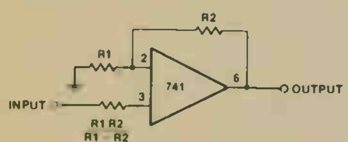
PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

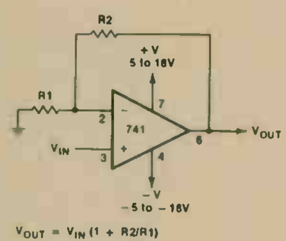
Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

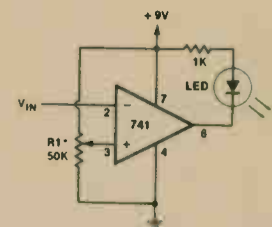


GAIN	R1	R2	BW	R_{IN}
10	1K	9K	100kHz	400M
100	100	9.9K	10kHz	280M
1000	100	99.9K	1kHz	80M

Non-Inverting Amplifier

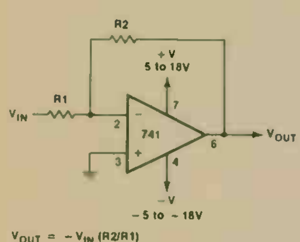


Non-Inverting Amplifier

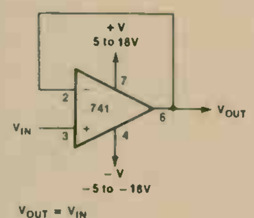


*R1 sets the voltage detection threshold (up to +9V). When V_{IN} exceeds the threshold (reference), the LED glows.

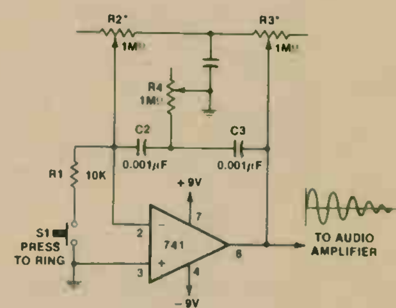
Level Detector



Inverting Amplifier

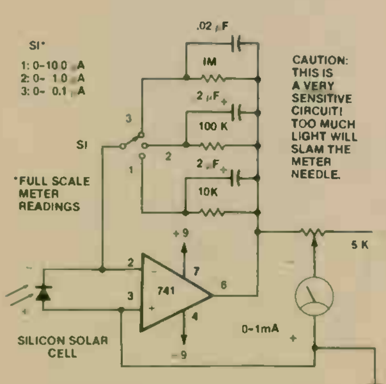


Unity Gain Follower

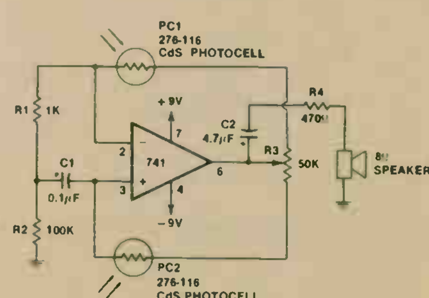


*Adjust R3 to just below oscillation point
Adjust R2 and R3 for sounds such as bell, drum, tinkling, etc.

Electronic Bell

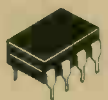


Optical Power Meter



Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor



DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

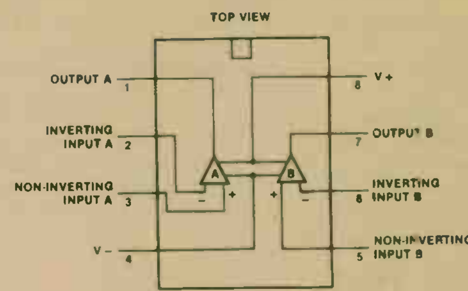
FEATURES

- No frequency compensation required
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

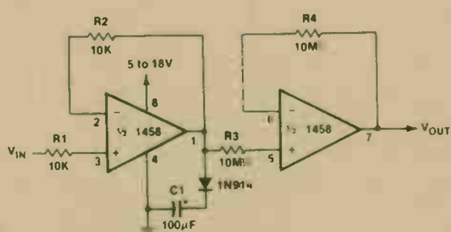
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	± 18V
Power Dissipation	400 mW
Differential Input Voltage	± 30V
Input Voltage	± 15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0 to + 70°C
Storage Temperature Range	− 65 to + 150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION

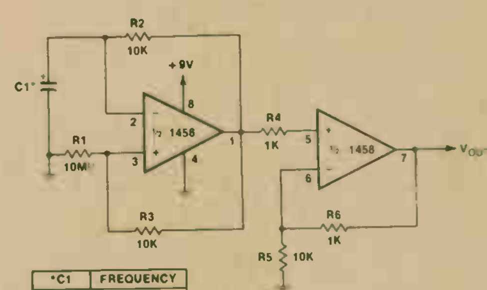


TYPICAL APPLICATIONS



C1 stores the peak voltage at V_{IN}.

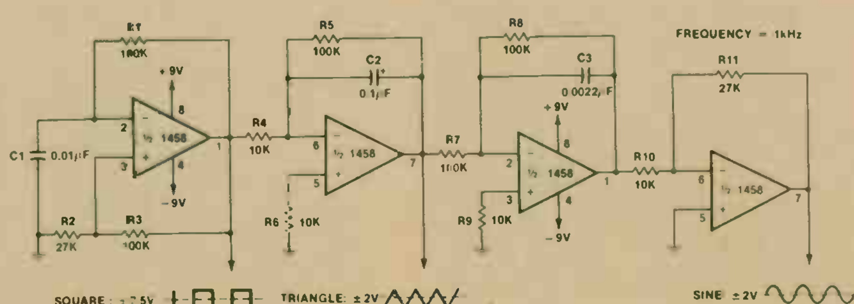
Peak Detector



*C1	FREQUENCY
0.001µF	5872Hz
0.010µF	660Hz
0.100µF	51Hz
1.000µF	8Hz

Pulses are DC when C1 > 0.1µF
Amplitude is 5 volts

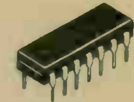
Pulse Generator



Function Generator

324
276-1711

QUAD OP AMP

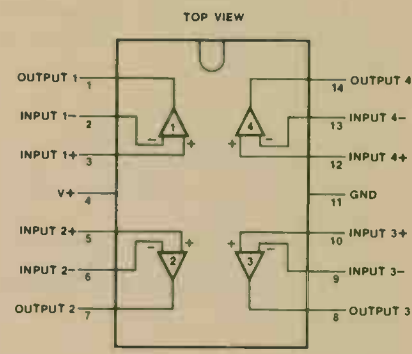


GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

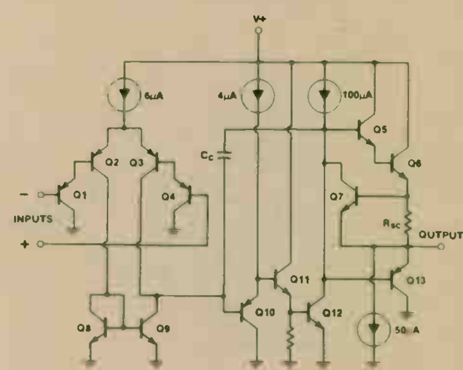
PIN CONNECTION



FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
  Single supply 3 V_{DC} to 30 V_{DC}
  or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800 μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V^+ −1.5 V_{DC}

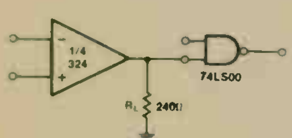
INTERNAL CIRCUIT
(Each Amplifier)



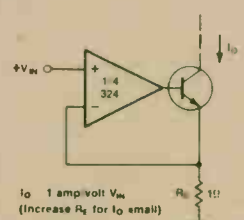
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	32 V_{DC}
Input Voltage	−0.3 V_{DC} to +32 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 nW
Output Short-Circuit to GND (One Amplifier) $V^+ \leq 15$ V_{DC} and $T_A = 25°C$	Continuous
Input Current ($V_{IN} < -0.3$ V_{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

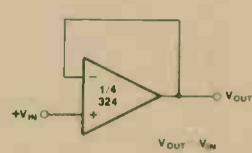
TYPICAL APPLICATIONS



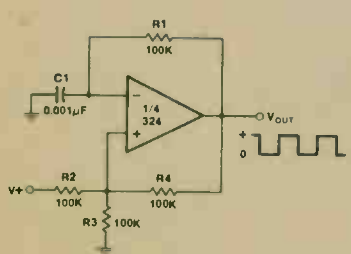
Driving TTL



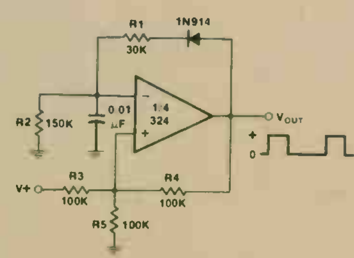
High Compliance Current Sink



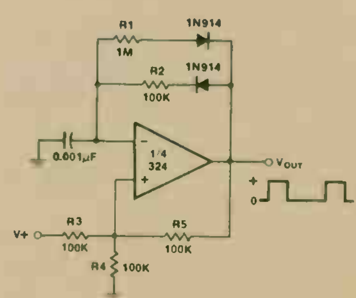
Voltage Follower



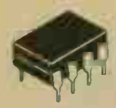
Squarewave Oscillator



Pulse Generator



Pulse Generator



TIMER 555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

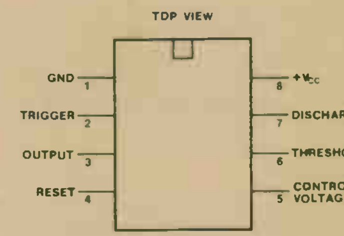
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

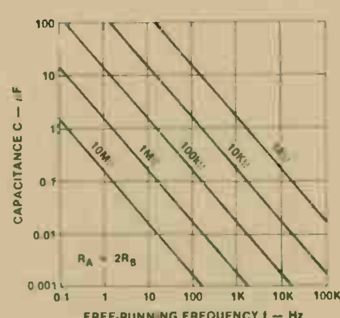


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

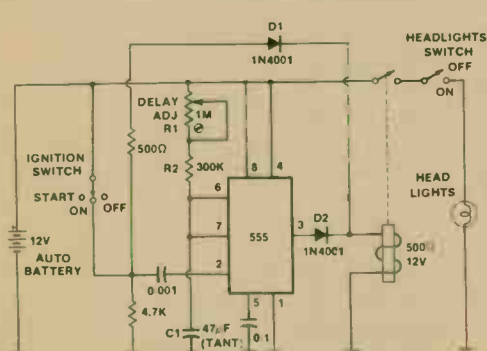
TYPICAL CHARACTERISTICS



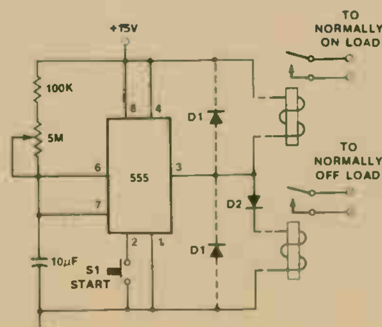
Capacitance vs
Free-Running Frequency

The charge time (output high) is given by $t_1 = 0.693\,(R_A + R_B)\,C$
The discharge time (output low) is given by $t_2 = 0.693\,(R_B)\,C$
Thus the total period is: $T = t_1 + t_2 = 0.693\,(R_A + 2R_B)\,C$
The frequency of oscillation is: $f = 1/T = 1.44\,/\,(R_A + 2R_B)\,C$

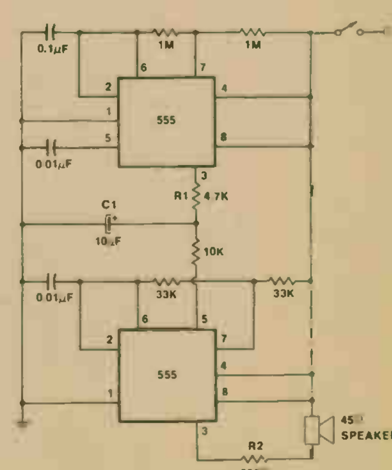
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



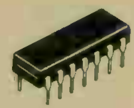
Relay Timer



Warble Alarm Circuit

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

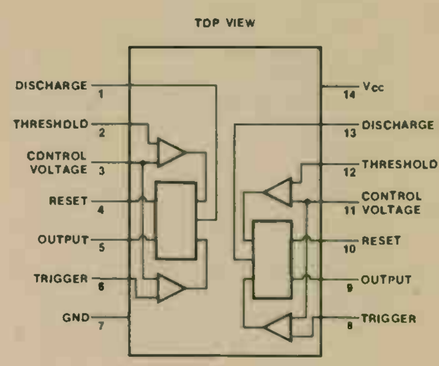
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

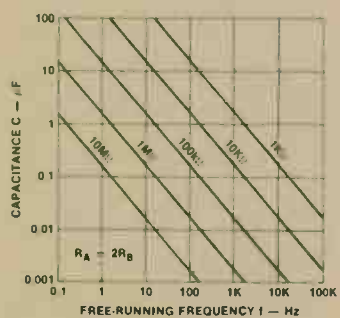
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

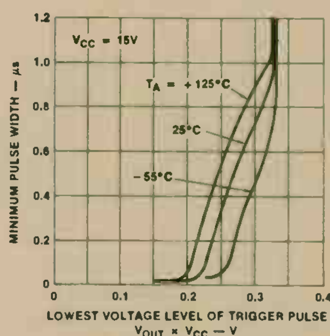


TYPICAL CHARACTERISTICS

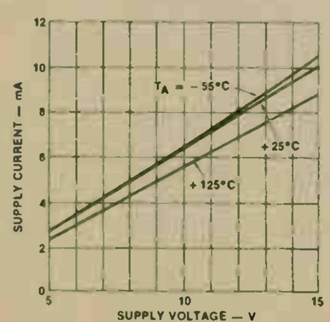


The charge time (output high) is given by:
$t_1 = 0.693\,(R_A + R_B)\,C$
The discharge time (output low) is given by:
$t_2 = 0.693\,(R_B)\,C$
Thus the total period is:
$T = t_1 + t_2 = 0.693\,(R_A + 2R_B)\,C$
The frequency of oscillation is:
$f = 1/T = 1.44\,/\,(R_A + 2R_B)\,C$

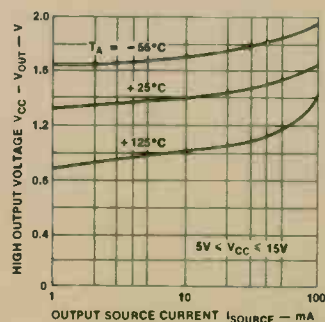
Capacitance vs Free-Running Frequency



Minimum Pulse Width vs Lowest Voltage Level of Trigger Pulse



Supply Current vs Supply Voltage



High Output Voltage vs Output Source Current

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

317T
276-1778

GENERAL DESCRIPTION

The 317T is an adjustable 3-terminal positive voltage regulator capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. This device is exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

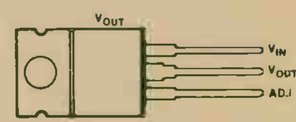
Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection ratios which are difficult to achieve with standard 3-terminal regulators

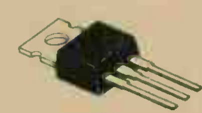
Besides replacing fixed regulators, the 317T is useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

It will also serve as a simple adjustable switching regulator, programmable output regulator, or by connecting a fixed resistor between the adjustment and output, the 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

PIN CONNECTIONS

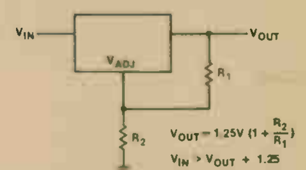
FRONT VIEW



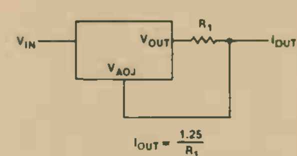


317T

TYPICAL APPLICATIONS



VOLTAGE REGULATOR



CURRENT LIMITER

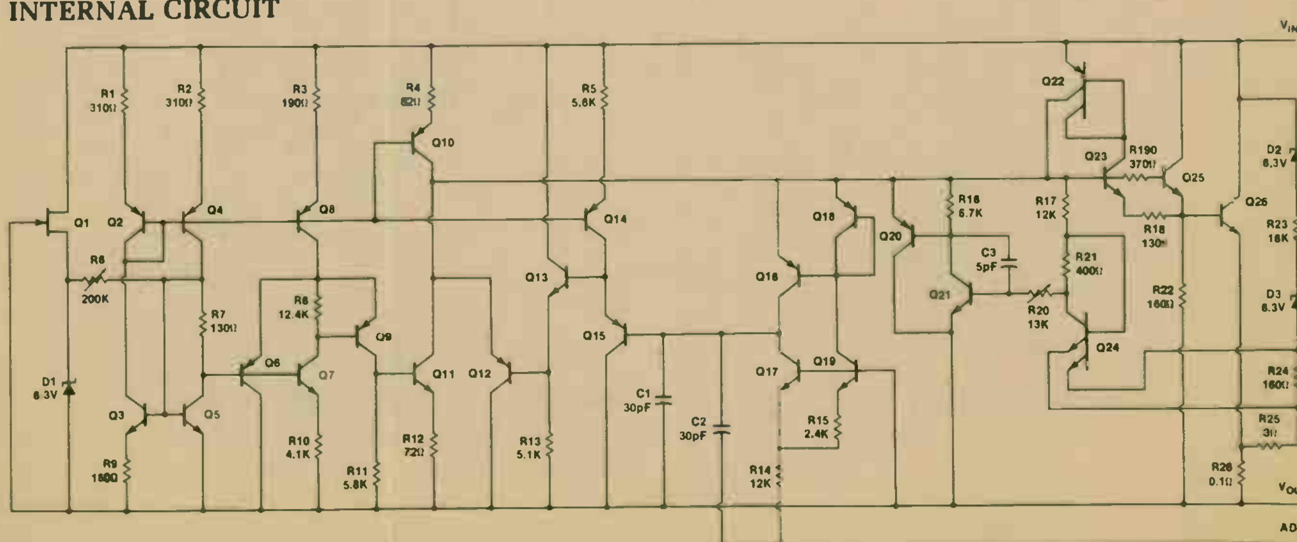
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A outpput current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

ABSOLUTE MAXIMUM RATINGS

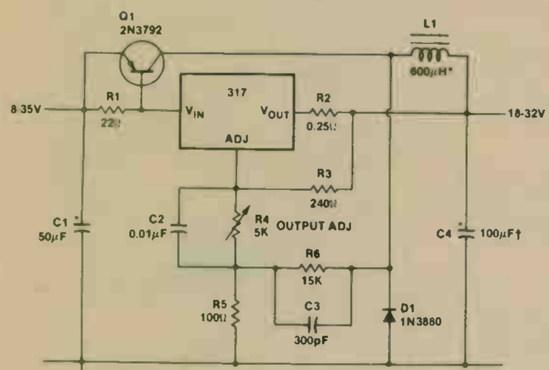
Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT



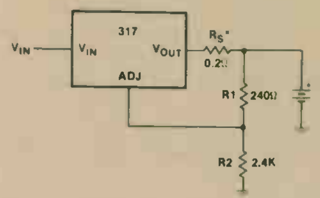
317T 276-1778

TYPICAL APPLICATIONS

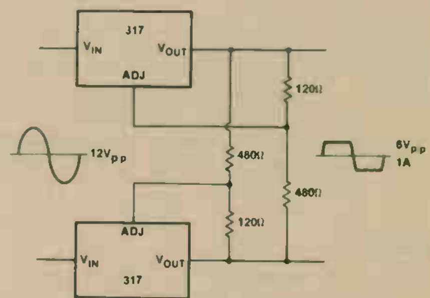


†Solid Tantalum
*Core—Arnold A-254168-2 60 turns

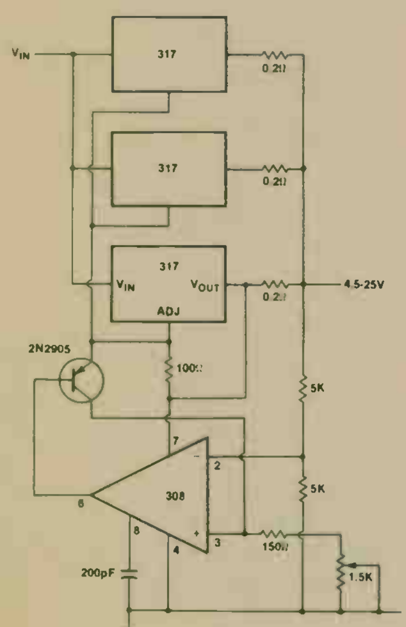
Low Cost 3A Switching Regulator



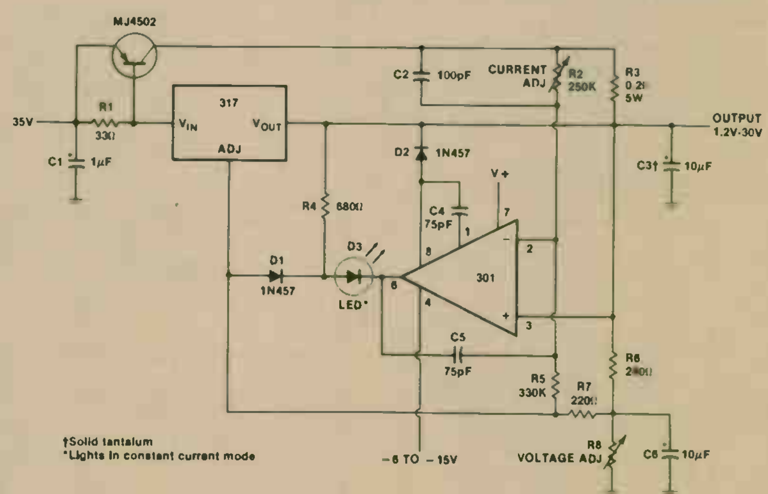
12V Battery Charger



AC Voltage Regulator

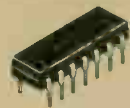


Adjustable 4A Regulator



†Solid tantalum
*Lights in constant current mode

5A Constant Voltage/Constant Current Regulator



ADJUSTABLE VOLTAGE REGULATOR

723
276-1740

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

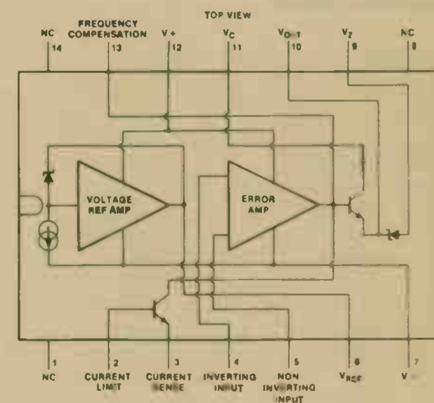
- 150 mA output current without external pass transistor
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

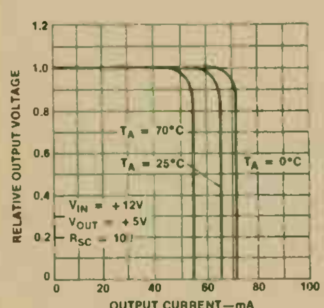
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V+ to V− (50 ms)	50V
Continuous Voltage from V+ to V−	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	−65 to +150°C
DIP	−55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

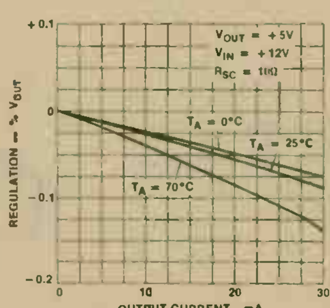
PIN CONNECTION



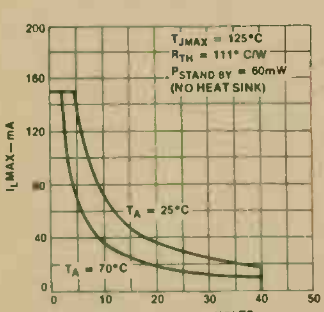
TYPICAL CHARACTERISTICS



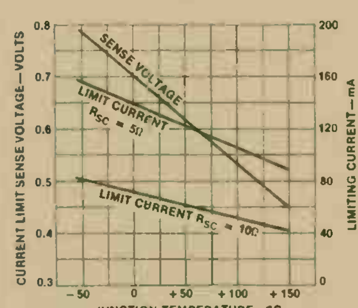
Relative Output Voltage vs Output Current



Load Regulation vs Output Current

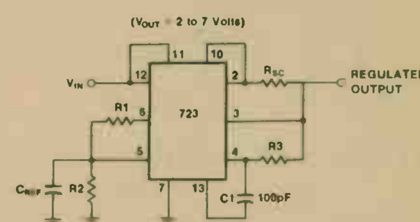


Maximum Load Current vs Input-Output Voltage Differential



Current Limit Sense Voltage vs Junction Temperature

TYPICAL APPLICATIONS

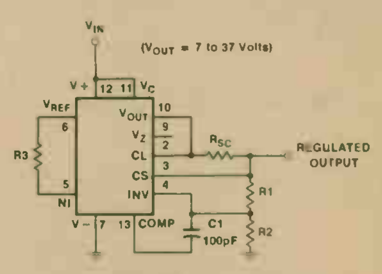


TYPICAL PERFORMANCE

Regulated Output Voltage	5V
Line Regulation (ΔV_{IN} = 3V)	0.5mV
Load Regulation (ΔI_L = 50mA)	1.5mV

Note: $R3 = \frac{R1\,R2}{R1 + R2}$ for minimum temperature drift

Basic Low Voltage Regulator



TYPICAL PERFORMANCE

Regulated Output Voltage	15V
Line Regulation (ΔV_{IN} = 3V)	1.5mV
Load Regulation (ΔI_L = 50mA)	4.5mV

Note: $R3 = \frac{R1R2}{R1 + R2}$ for minimum temperature drift

Basic High Voltage Regulator

7805 276-1770 **7812** 276-1771 **7815** 276-1772

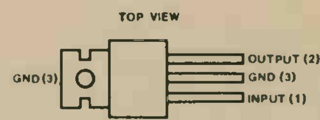
5V VOLTAGE REGULATOR
12V VOLTAGE REGULATOR
15V VOLTAGE REGULATOR

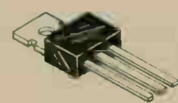
GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

PIN CONNECTION





FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

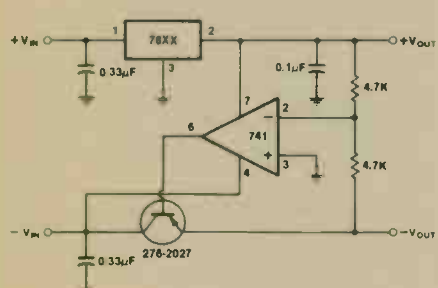
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

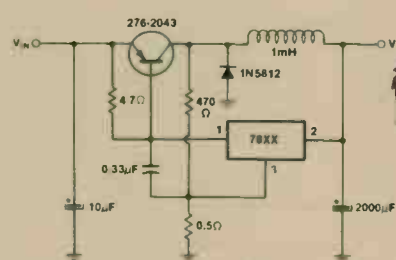
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

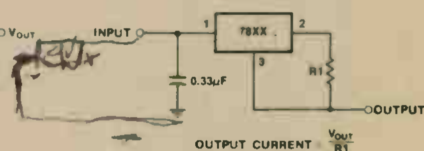
TYPICAL APPLICATIONS



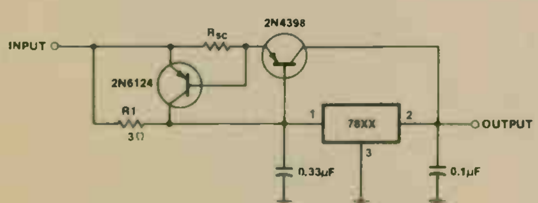
±Tracking Voltage Regulator



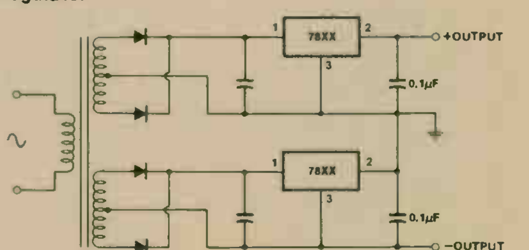
Switching Regulator



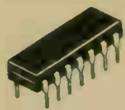
Current Regulator



High Output Current, Short Circuit Protected



Positive and Negative Regulator



QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

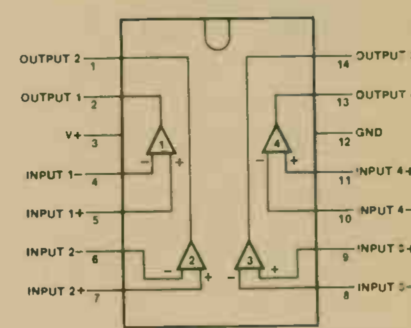
- Wide single supply:
  Voltage range 2 V_{DC} to 32 V_{DC} or dual supplies ±1 V_{DC} to ±16 V_{DC}
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at +5 V_{DC})
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5 μA; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

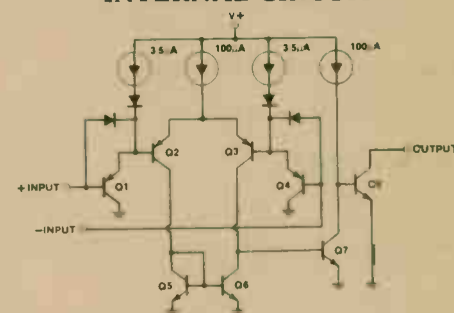
Supply Voltage, V+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	36 V_{DC}
Input Voltage	−0.3 V_{DC} to −36 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current (V_{IN} < −0.3 V_{DC})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION

TOP VIEW

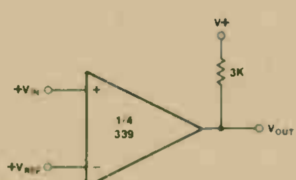


INTERNAL CIRCUIT

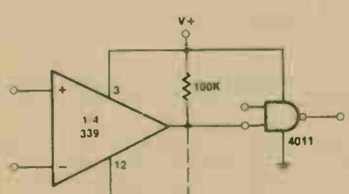


TYPICAL APPLICATIONS

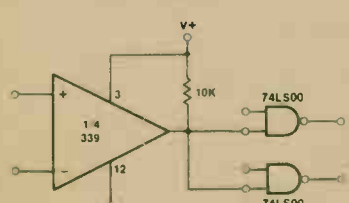
5 VOLT GROUP



Basic Comparator

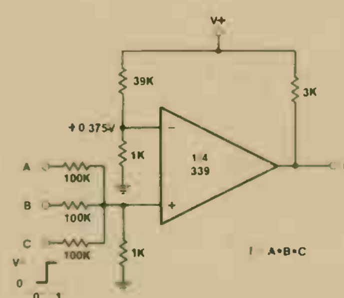


Driving CMOS

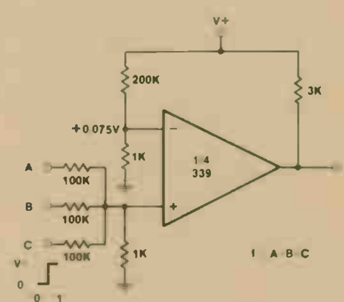


Driving TTL

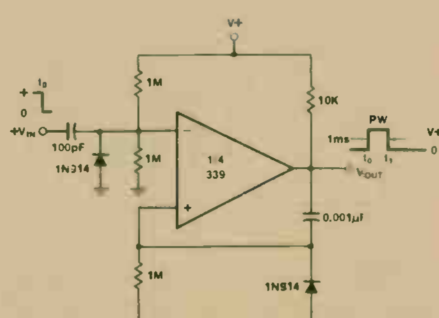
15V GROUP



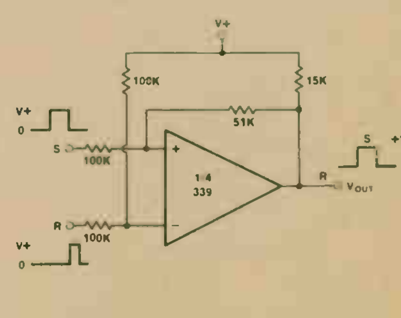
AND Gate



OR Gate



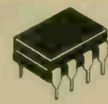
One-Shot Multivibrator



Bi-Stable Multivibrator

3909
276-1705

LED FLASHER/OSCILLATOR



GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example −20% to +100%.

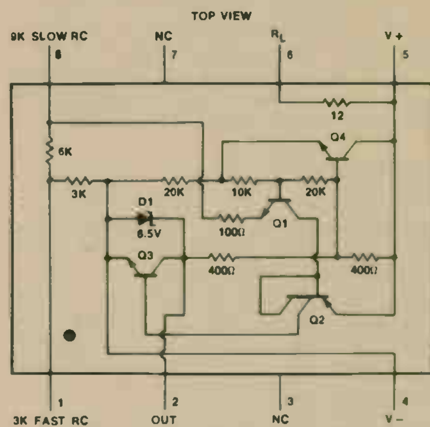
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

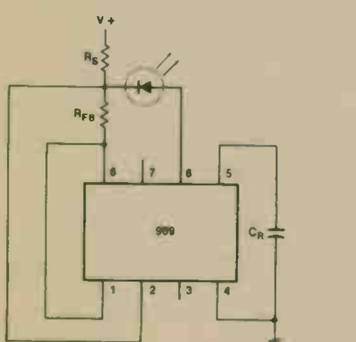
ABSOLUTE MAXIMUM RATINGS

Power Dissipation .... 500 mW
V+ Voltage 6.4V
Pulse Width .... 6 ms
Peak LED Current .... 45 mA
Operating Current .... 75 mA
Flash Frequency .... 1.3 Hz
High Flash Frequency .... 1.1 kHz
Operating Temperature Range .... −25 to +70°C

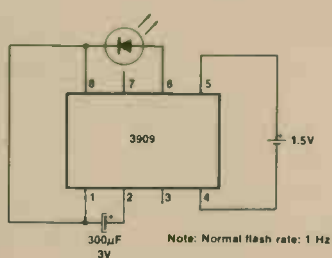
PIN CONNECTION



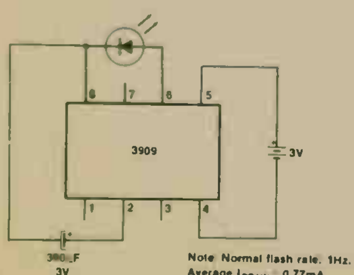
TYPICAL APPLICATIONS



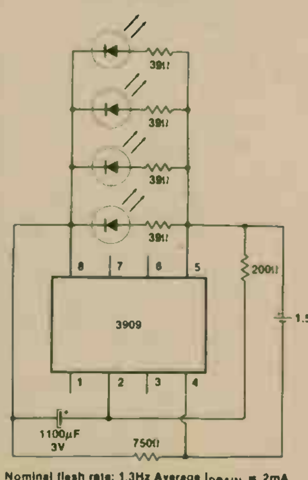
Warning Flasher High Voltage Powered



1.5V Flasher

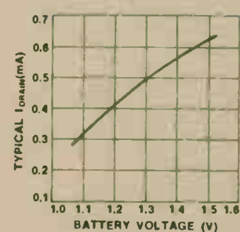


3V Flasher



Parallel LED's

TYPICAL CHARACTERISTICS



Drain Current vs Battery Voltage

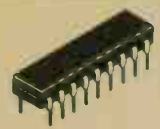
ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or leak-proof batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C_T	R_S 1W	R_{FB}	$V+_{RANGE}$
6V	2	400µF	1K	1.5K	5-25V
15V	2	180µF	3.9K	1K	13-50V
100V	1.7	180µF	43K	1K	85-200V



5V LOW-POWER DTMF RECEIVER

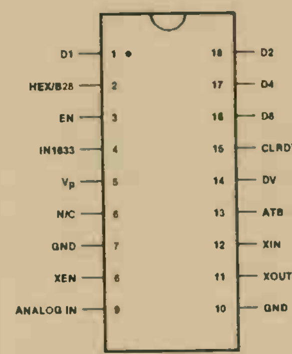
SSI202
276-1303

GENERAL DESCRIPTION

The SSI 202 is a complete Dual Tone Multiple Frequency (DTMF) receiver detecting a selectable group of 12 or 16 standard digits. No front-end pre-filtering is needed. The only externally required components are an inexpensive 3.58-MHz television "colorburst" crystal (for frequency reference) and a bias resistor. Extremely high system density is made possible by using the clock output of a crystal connected SSI 202 receiver to drive the time bases of additional receivers. The SSI 202 uses a monolithic integrated circuit fabricated with low-power, complementary symmetry MOS (CMOS) processing. It requires only a single low tolerance voltage supply.

The SSI 202 employs state-of-the-art circuit technology to combine digital and analog functions on the same CMOS chip using a standard digital semiconductor process. The analog input is pre-processed by 60-Hz reject and band splitting filters and then hard-limited to provide AGC. Eight bandpass filters detect the individual tones. The digital post-processor times the tone durations and provides the correctly coded digital outputs. Outputs interface directly to standard CMOS circuitry, and are three-state enabled to facilitate bus-oriented architectures.

PIN CONNECTION



FEATURES

- NO front-end band-splitting filters required
- Single, low-tolerance, 5-volt supply
- Detects either 12 or 16 standard DTMF digits
- Uses inexpensive 3.579545-MHz crystal for reference
- Excellent speech immunity
- Output in either 4-bit hexadecimal code or binary coded 2 of 8
- Synchronous or handshake interface
- Three-state outputs

ABSOLUTE MAXIMUM RATINGS*

Supply Voltage (DC)	7V
Input Voltage (All Inputs Except Analog In)	− .5V to + .5V
Analog In Voltage	− 10V to + .5V
DC Current Into Any Input	± 1.0 MA
Power Dissipation (Note 1)	65 MW
Operating Temperature	0°C to 70°C
Storage Temperature	− 65°C to 150°C

* All unused inputs must be connected to V_p or GND as appropriate.
Note 1: Operate above 25°C @ 6.25 mw/°C

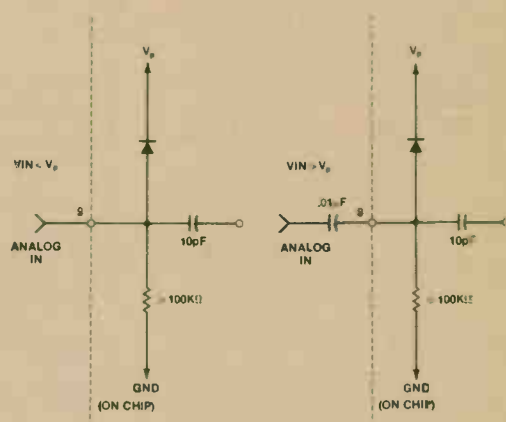


Fig. 1

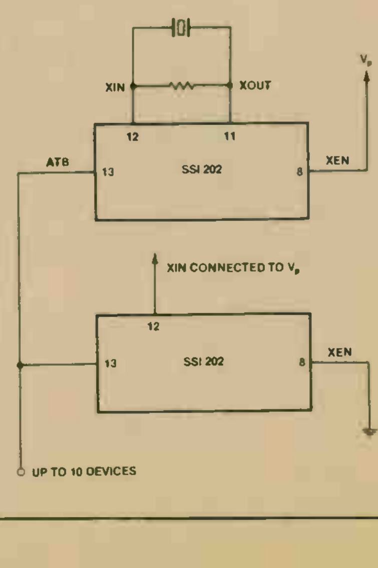
ANALOG IN

This pin accepts the analog input. It is internally biased so that the input signal may be AC coupled. The input may be DC coupled as long as it does not exceed the positive supply. Proper input coupling is illustrated in Fig. 1.

The SSI 202 is designed to accept sinusoidal input wave forms but will operate satisfactorily with any input that has the correct fundamental frequency with harmonics greater than 20 dB below the fundamental.

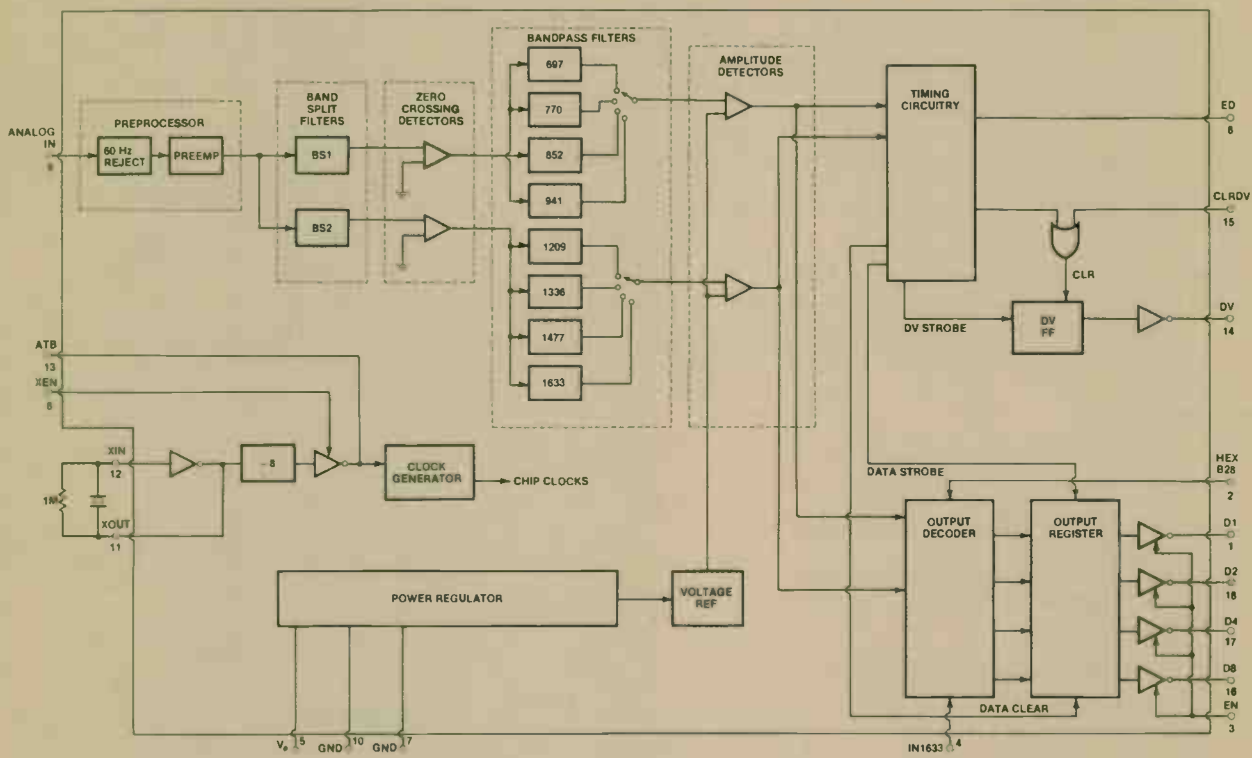
CRYSTAL OSCILLATOR

The SSI 202 contains an onboard inverter with sufficient gain to provide oscillation when connected to a low-cost television "color-burst" crystal. The crystal oscillator is enabled by tying XEN high. The crystal is connected between XIN and XOUT. A 1 MΩ 10% resistor is also connected between these pins. In this mode, ATB is a clock frequency output. Other SSI 202's may use the same frequency reference by tying their ATB pins to the ATB of a crystal-connected device. XIN and XEN of the auxiliary devices must then be tied high and low respectively. Ten devices may run off a single crystal-connected SSI 202.



SSI202 276-1303

Block Diagram



HEX/B28

This pin selects the format of the digital output code. When HEX/B28 is tied high, the output is hexadecimal. When tied low, the output is binary coded 2 of 8. The table below describes the two output codes.

	Hexadecimal				Binary Coded 2 of 8			
Digit	D8	D4	D2	D1	D8	D4	D2	D1
1	0	0	0	1	0	0	0	0
2	0	0	1	0	0	0	0	1
3	0	0	1	1	0	0	1	0
4	0	1	0	0	0	1	0	0
5	0	1	0	1	0	1	0	1
6	0	1	1	0	0	1	1	0
7	0	1	1	1	1	0	0	0
8	1	0	0	0	1	0	0	1
9	1	0	0	1	1	0	1	0
0	1	0	1	0	1	1	0	1
*	1	0	1	1	1	1	0	0
#	1	1	0	0	1	1	1	0
A	1	1	0	1	0	0	1	1
B	1	1	1	0	0	1	1	1
C	1	1	1	1	1	0	1	1
D	0	0	0	0	1	1	1	1

IN1633

When tied high, this pin inhibits detection of tone pairs containing the 1633-Hz component. For detection of all 16 standard digits, IN1633 must be tied low.

OUTPUTS D1, D2, D4, D8 and EN

Outputs D1, D2, D4, D8 are CMOS push-pull when enabled (EN high) and open circuited (high impedance) when disabled by pulling EN low. These digital outputs provide the code corresponding to the detected digit in the format programmed by the HEX/B28 pin. The digital outputs become valid after a tone pair has been detected and they are then cleared when a valid pause is timed.

DV and CLRDV

DV signals a detection by going high after a valid tone pair is sensed and decoded at the output pins D1, D2, D4, D8. DV remains high until a valid pause occurs or the CLRDV is raised high, whichever is earlier.

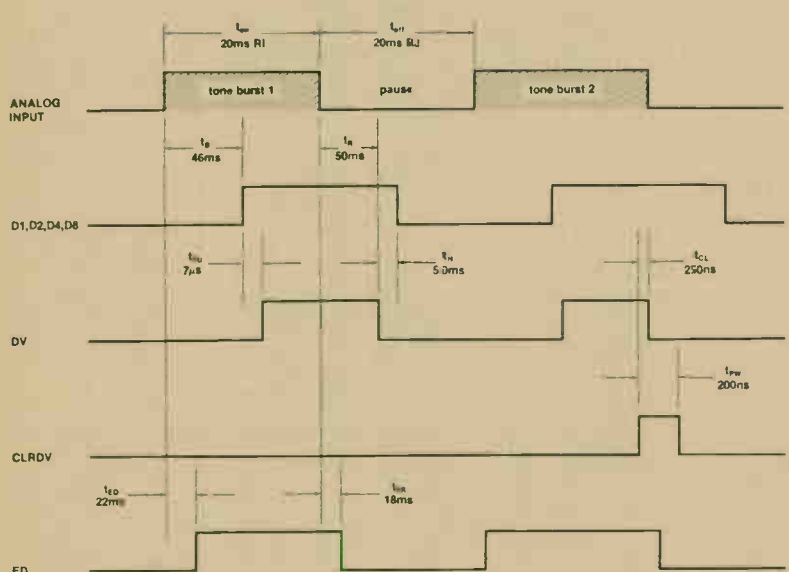
N/C PINS

These pins have no internal connection and may be left floating.

DETECTION FREQUENCY

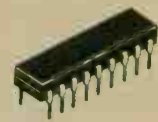
Low Group f_o	High Group f_o
Row 0 = 697 Hz	Column 0 = 1209 Hz
Row 1 = 770 Hz	Column 1 = 1336 Hz
Row 2 = 852 Hz	Column 2 = 1477 Hz
Row 3 = 941 Hz	Column 3 = 1633 Hz

SSI 202 TIMING

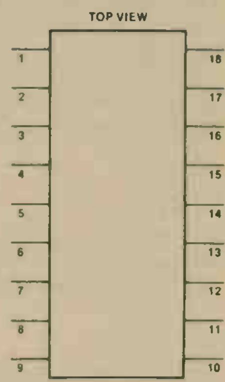


TDA7000
276-1304

FM RECEIVER



PIN CONNECTION



PIN	FUNCTION
1	Muting Capacitor
2	Audio frequency output
3	Noise source
4	Loop filter capacitor
5	Supply voltage
6	VCO
7	1st integrator capacitor*
8	2nd integrator capacitor
9	1st integrator capacitor*
10	IF filter capacitor (to pin 11)
11	IF filter capacitor
12	IF limiter capacitor
13	RF input
14	Mixer
15	Current source capacitor
16	Ground
17	Demodulator capacitor
18	Correlator capacitor
	*Connects between Pins 7 and 9.

GENERAL DESCRIPTION

The TDA7000 is a monolithic integrated circuit for mono FM portable radios, where a minimum of peripheral components is important (small dimensions and low costs).

The IC has an FLL (Frequency-Locked-Loop) system with an intermediate frequency of 70 kHz. The i.f. selectivity is obtained by active RC filters. The only function which needs alignment is the resonant circuit for the oscillator, thus selecting the reception frequency. Spurious reception is avoided by means of a mute circuit, which also eliminates too noisy input signals. Special precautions are taken to meet the radiation requirements.

The TDA7000 includes the R.F. input stage, mixer, local oscillator, I.F. amplifier/limiter, phase demodulator, mute detector and mute switch.

ABSOLUTE MAXIMUM RATINGS

Supply voltage range (pin 5) (Vp)	12 V
Supply current at V_p = 4,5 V (IP)	8 mA
Power	(See power derating curve)
R.F. input frequency range (f_{rf})	1.5 to 110 MHz

TYPICAL APPLICATIONS

AUDIO AMPLIFIER AND DETUNING INDICATOR CIRCUITS

Audio output stages suitable for use with the TDA7000 are shown in Fig. E and F. Figure G shows how the muting signal can be used to operate a LED to give an indication of detuning.

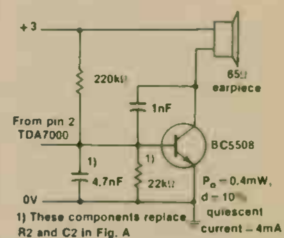


Fig. E A 0.4mW transistor audio output stage without volume control for driving an earpiece.

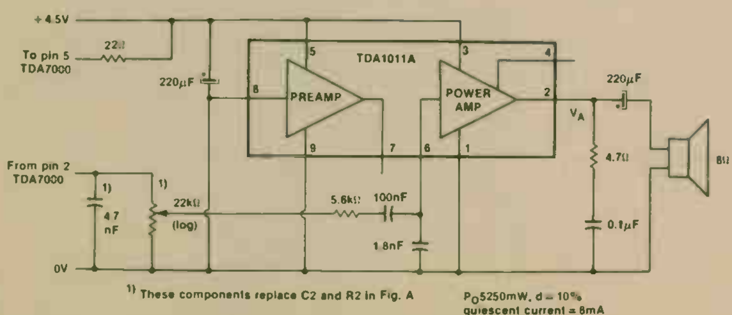


Fig F An integrated 250mW audio output stage

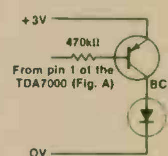


Fig. G A detuning indicator driven by the mute signal from the TDA7000

TDA7000 276-1304

TYPICAL APPLICATION

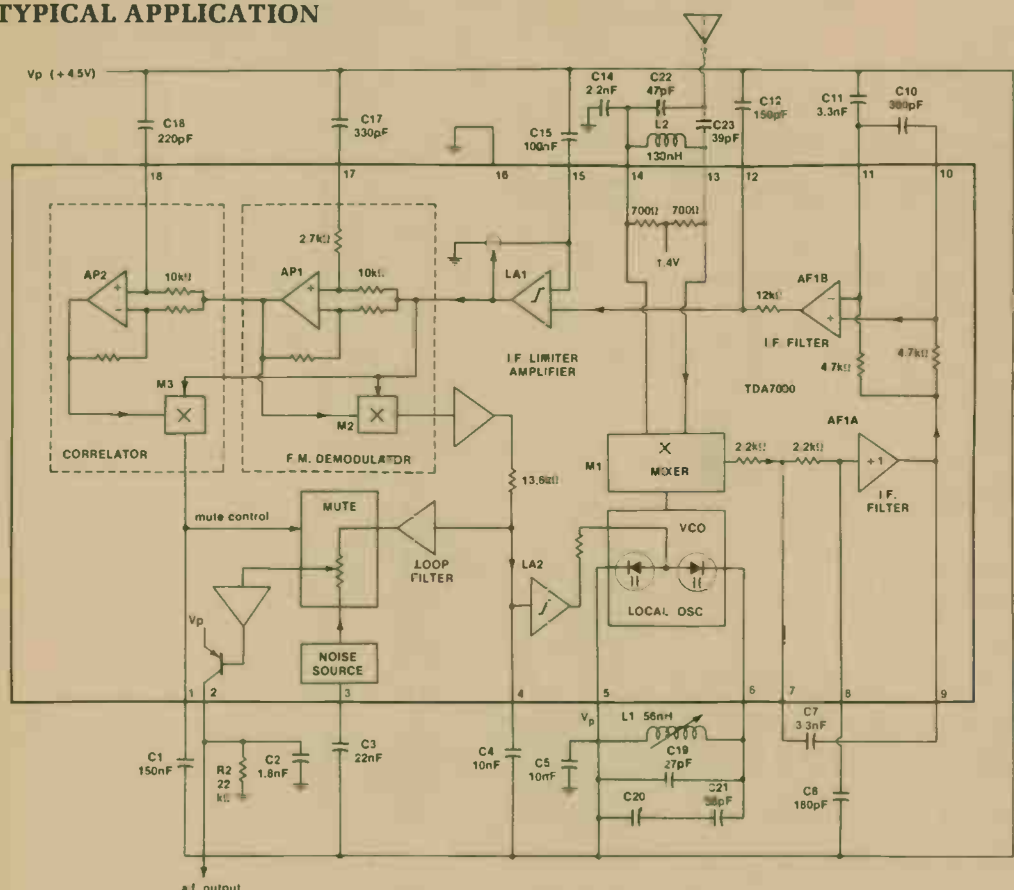


Fig. A The TDA7000 as a variable capacitor tuned f.m. broadcast monitor

C_7 to C_{12}, C_{17} and C_{18}:
Filter and demodulator capacitors. The values shown are for an i.f. of 70 kHz. For other intermediate frequencies, the values of these capacitors must be changed in inverse proportion to the i.f. change.

C_{14}:
Decouples the reverse r.f. input. It must be connected to the common return via a good quality short connection to ensure a low-impedance path. Inductive or capacitive coupling between C_{14} and the local-oscillator circuit or i.f. output components must be avoided.

C_{15}:
Decouples the d.c. feedback for i.f. limiter/amplifier LA1.

C_{19} and C_{21}:
Local-oscillator tuning capacitors. Their values depend on the required tuning range and on the value of tuning capacitor C_{20}.

C_{22}, C_{23}, L_1, L_2:
The values given are for an r.f. bandpass filter with Q = 4 for the European and U.S.A. domestic f.m. broadcast band (87.5 MHz to 108 MHz). For reception of the Japanese f.m. broadcast band (76 MHz to 91 MHz), L_1 must be increased to 78 nH and L_2 must be increased to 150 nH. If stopband attenuation for high level a.m. or tv signals is not required, L_2 and C_{22} can be omitted and C_{23} changed to 220 pF.

R_2:
The load for the audio output current source. It determines the audio output level, but its value must not exceed 22 kΩ for V_p = 4.5 V, or 47 kΩ for V_p = 9 V.

TDA7000 276-1304

TYPICAL APPLICATIONS

Circuit with variable-capacitance diode tuning

Since it is only necessary to tune the local-oscillator coil, it is very simple to modify the circuit of Fig. A for variable-capacitance diode tuning. The modifications are shown in Fig. B.

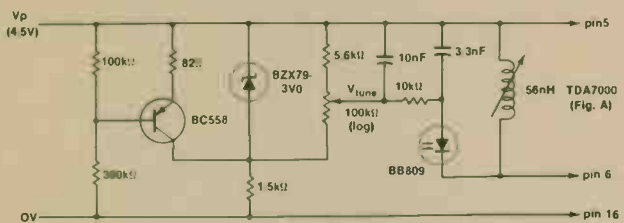


Fig. B Variable capacitance diode tuning for the local-ocillator. Additional measures must be taken to ensure temperature stability.

Narrow-band f.m. receiver

The TDA7000 can also be used for reception of narrow-band f.m. signals. In this case, the local-oscillator is crystal-controlled as shown in Fig. C and there is therefore hardly any compression of the i.f. swing by the FLL. The deviation of the transmitted carrier frequency due to modulation must therefore be limited to prevent severe distortion of the demodulated audio signal.

The component values in Fig. C result in an i.f. of 4.5 kHz and an i.f. bandwidth of 5 kHz (Fig. D). If the i.f. is multiplied by N, the values of capacitors C_{17} and C_{18} in the all-pass filters and the values of filter capacitors C_7, C_8, C_{10}, C_{10}, C_{11}, and C_{12} must be multiplied by 1/N. For improved i.f. selectivity to achieve greater adjacent channel attenuation, second-order networks can be used in place of C_{10} and C_{11}.

In this circuit the detuning noise generator is not used. Since the circuit is mainly for reception of audio signals, the audio output must be passed through a low-pass Chebyshev filter to suppress i.f. harmonics.

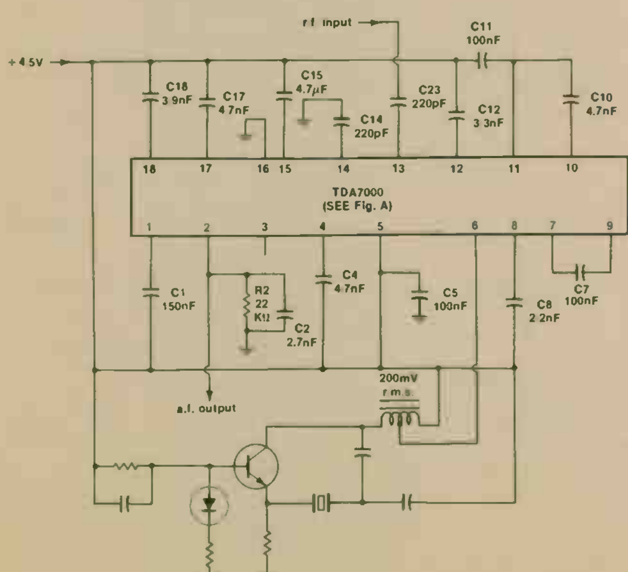
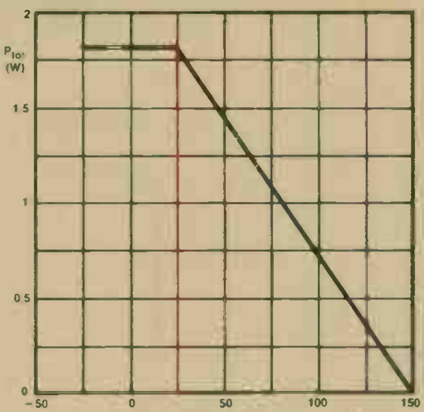


Fig. C A narrow-band f.m. receiver with a crystal-controlled local oscillator.

TDA7000 276-1304

TYPICAL CHARACTERISTICS



Power derating curve. T_{amb} (°C)

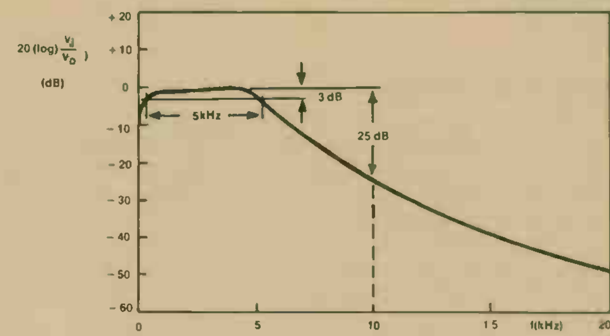
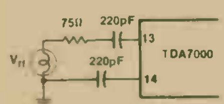


Fig. D I.F. selectivity for the narrow band f.m. receiver



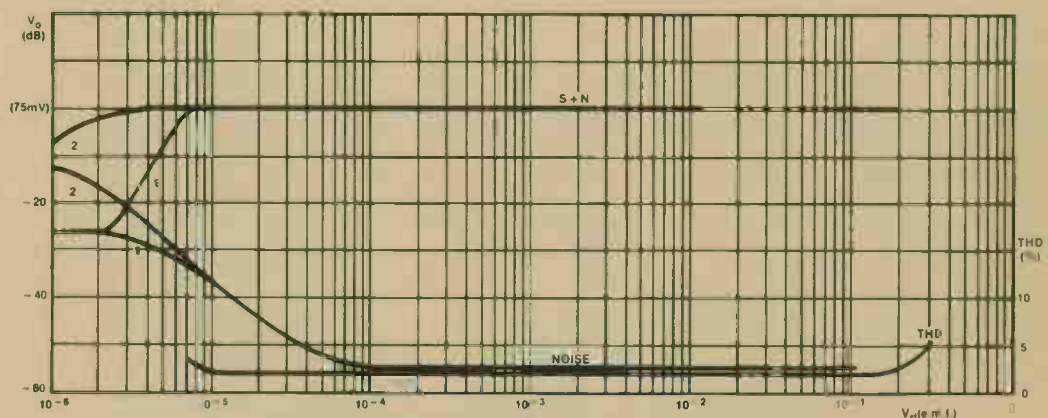
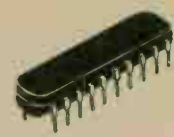


Fig. H Audio output as a function of input e.m.f. The curves numbered 1 were measured with the muting system active. The curves numbered 2 were measured with the muting system disabled by injecting about 20 μA into pin 1 of the TDA7000. The input frequency was 96 MHz modulated with 1 kHz with a deviation of ± 22.5 kHz for the output level curves, and ± 75 kHz for the distortion curve.

VCP200
276-1308

SPEAKER–INDEPENDENT WORD RECOGNIZER



GENERAL DESCRIPTION

The VCP200 is a speech recognizer IC that recognizes a limited number of spoken commands, regardless of the person speaking. It identifies commands by breaking the words into broad phoneme classes, and then recognizing predetermined strings of these classes. The VCP200 performs a spectral analysis of the incoming speech signal over the range of 300 Hz to 5500 Hz, determines the membership of phoneme classes based on spectral shape, forms strings of these classes, and compares the strings to the stored strings of selected commands. The VCP200 recognizes the selected commands, regardless of who spoke them, in real time.

The VCP200 has two speech recognition modes. In the Command Mode, it recognizes five motion commands: ***go, stop, left turn, turn right,*** and ***reverse.*** In the Yes-No/On-Off Mode, it recognizes two commands: either *yes* and ***no*** or ***on*** and ***off.*** When the given command is recognized, the associated output for that command provides a latched logic low, capable of sinking up to 10 mA. In the Yes-No/On-Off Mode, a third output indicates no recognition.

The VCP200 is designed for use in a relatively quiet environment. Constant background noise such as fans, air conditioning, or motors can usually be accommodated by adjusting the input amplifier's gain so that the output signal at the second amplifier does not exceed 1 volt peak-to-peak with no speech input. Intermittent noises such as slamming doors, loud music, or construction sounds are harder to deal with. A close-talking, noise-canceling microphone helps, although occasional misrecognition might still occur. In general, the lower the level of outside noises, the better the VCP200 performs.

The location of the microphone relative to the person speaking also affects performance and is dependent on the background noise. The quieter the noise level, the greater the microphone's usable distance. Good performance at up to 2 feet is common for quiet areas. It might help to experiment with several microphones to optimize performance. It might also help to change the frequency/gain characteristics of the input amplifiers to compensate for the high-frequency loss (greater than 4 kHz) as distance increases.

While the VCP200 ignores some words not in its vocabulary, it was designed with the assumption that it need only discriminate among the programmed commands. As a result, words that are not in the VCP200's vocabulary are sometimes identified as being commands, but commands are rarely confused with each other. If the VCP200 must function in the presence of other spoken words, it should be disabled until a command is expected by either bringing Pin 20 low or by using a push-to-talk switch on the microphone.

PIN CONNECTION

Ground	1	20	$\overline{\text{RESET}}$
No Op (Vcc)	2	19	$\overline{\text{Command}}$/ Yes-No, On-Off Mode
Vcc	3	18	No Op (Ground)
XTAL	4	17	No Op (Vcc)
EXTAL	5	16	No Op (Vcc)
No Op (Ground)	6	15	No Op (Float)
Audio In	7	14	LEFT TURN
GO/NO-ON	8	13	No Op (Float)
TURN RIGHT/YES-OFF	9	12	STOP
REVERSE/NOT SURE	10	11	No Op (Float)

FEATURES

- Recognizes five motion commands: ***go, stop, reverse, turn right,*** and ***left turn*** or two commands: *yes* and ***no*** or ***on*** and ***off.***
- Active low outputs can sink up to 10 mA.
- Powered from a single 5V supply.
- Uses clipped analog input so you do not need an analog-to-digital conversion circuit.
- Requires minimal support hardware.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC}) .... −0.3 to +7.0V
Input Voltage (V_{IN}) .... −0.3 to +7.0V
Operating Temperature Range (T_A) .... 0 to 70°C
Storage Temperature Range (Tstg) .... −55 to 150°C

Application Information

VCP200 276-1308

The schematics on the following page provide complete information for implementing the VCP200 in a user application. In addition, a complete printed circuit board layout is provided for construction of a sample circuit.

Note that the values selected for the audio input amplifier cause the amplifier to deliver an extremely clipped square-wave representation of the microphone input. The gain and frequency characteristics of the amplifier can be adjusted to provide better rejection of background noise by selecting the appropriate components.

Once you have constructed a working circuit, there are some things you can do to make the VCP200 work more consistently. It is important that you use the microphone properly. Hold the microphone close to (about 1 inch) and directly in front of your mouth. Point the microphone directly into your mouth so that you are speaking into, rather than across the top of, the microphone. Remember, the final signal into the VCP200 is extremely clipped. It is not a signal that you would input to an amplifier, because the distortion would make the signal nearly unintelligible. You will find that if the VCP200 is having trouble understanding a command, talking louder usually helps, because this causes the signal to clip even more, and provides a sharper transition between phoneme classes. Take the time to experiment with your microphone technique. Once you get this right, you will find that the system operates very well.

As noted earlier, the VCP200 has two different recognition modes. The Command Mode is enabled by bringing Pin 19 low. In this mode, the VCP200 recognizes the commands ***go, stop, reverse, left turn,*** and ***turn right***. The Yes-No/On-Off Mode is enabled by bringing Pin 19 high. In this mode, three outputs indicate the recognition of *yes* or ***off, no*** or ***on,*** or unrecognized.

Here are a few pointers on how to help the VCP200 understand you better.

GO—Remember that this is a short word. This is the most easily recognized of the five words in the command mode

LEFT TURN—Note that this command consists of two words. Speak them with a normal separation between the words, and pronounce both t's.

TURN RIGHT—This command also consists of two words. For this command, however, try running the words together. Also, emphasize the beginning and ending t's. If the VCP200 confuses this command with LEFT TURN, try speaking a little louder.

REVERSE—This is the most difficult word for the VCP200 to properly recognize. Be sure to pronounce the first e and slightly emphasize the final s.

STOP—Emphasize each of the four sounds that make up this word; especially the initial s and the final p.

In the Yes-No/On-Off Mode, the VCP200 has virtually no trouble distinguishing between the two words. This mode works with either word pair because of the similarity between yes and off, and between on and no. Be sure to pronounce the final sound ("sss" or "fff") in yes and off, and you should have no problem.

The first few times you use the VCP200 you might have a little trouble. Just as it is difficult to understand someone that pronounces words a little differently, your VCP200 might not be able to understand you at first. The difference here is that the VCP200 cannot learn new pronunciations or new words. It is up to you to learn to pronounce the words in a way that the VCP200 can understand. The good thing is that the VCP200 definitely does understand you, once you learn to pronounce the commands correctly.

THEORY OF OPERATION

Your VCP200 uses a technique called *speaker-independent speech recognition*. Speaker-independent means that the VCP200 is designed so that there is a very high probability that it can understand anyone who can properly pronounce the words in its vocabulary. This differs significantly from the more common form of speech recognition which is called *speaker-dependent speech recognition*. In speaker-dependent speech recognition, a user must go through a long training process to teach the machine to recognize the words. After training, the machine can recognize that person with a high degree of accuracy, but it does not do nearly as well when a person other than the one that trained it tries to use it, or even when the person that trained it is hoarse. Also, with speaker-dependent recognition, the training must be repeated if, for some reason, electrical power is removed from the microprocessor. You never have to train your VCP200. It never forgets the words it is programmed to understand.

Note: The following are suggested values for the amplifier section covered on the next page. Some component values are not available at Radio Shack stores.

C_1	.22 µf
C_2	47 pf (Maximum Value)
C_3	.22 µf
C_4	01 µf (Optional)
C_5	47 pf (Maximum Value)
C_6	1 mf
C_7	1 mf
C_{12}	.01 mf (Not for close talking microphone)
R_1	1K
R_2	2.2K
R_3	10K (Not for close talking microphone)
R_4	470K
R_5	1K
R_6	10K
R_7	470k (Adjust up or down to adjust gain)
R_8	10 Meg
CR1	Cat. No. 276-1122
IC1	LM324 (Cat. No. 276-1711)
LEDs	Cat. No. 276-041 or equiv.
Electret Microphone	Cat. No. 270-092

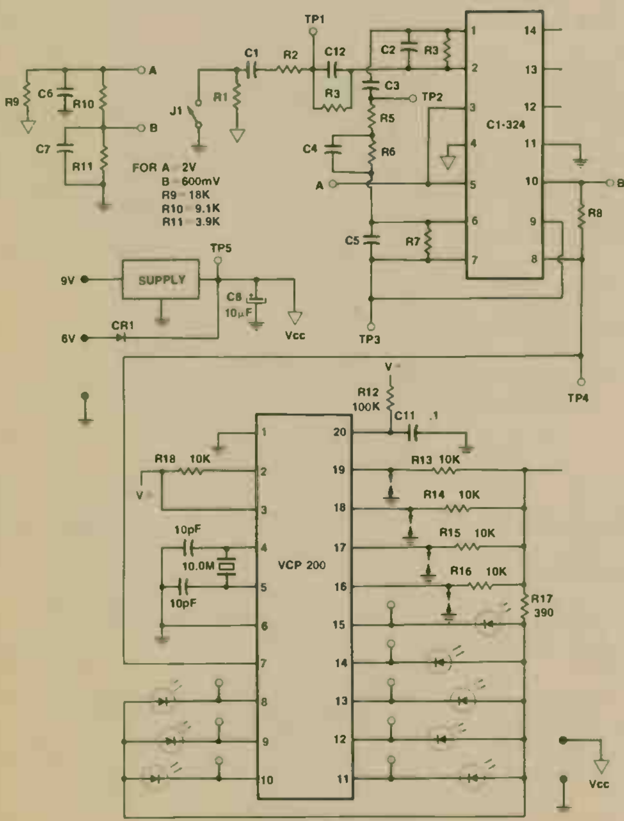
VCP200 276-1308

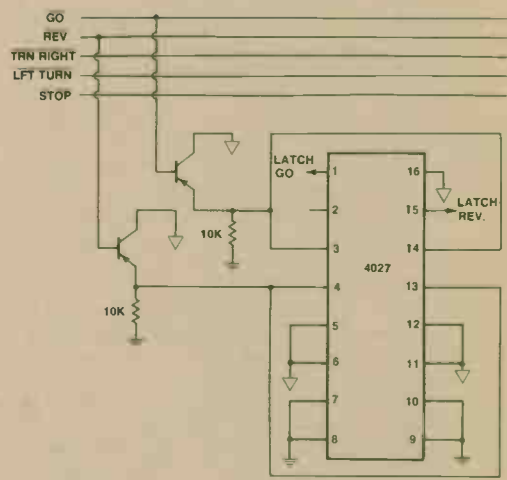
THEORY OF OPERATION CONT'D.

Basically, the success of speaker-independent speech recognition depends on two factors. The first factor is that a properly pronounced word, after analysis, gives a very similar pattern regardless of who says the word. The second factor is that the words your device is trying to recognize must sound as different as possible, while still being consistent with the purposes of the device. This is the reason you must say "left turn" and "turn right." If "turn" had come first for both commands, it would have been much more difficult to tell the two commands apart.

Any device designed to perform speaker-independent speech recognition is programmed with only a few words. When it hears a word, it searches through its set to see if the word is one it recognizes. If there is any question, it either rejects the word or picks the command that sounds closest to what it received. This is why it is important in the design to pick words that sound different. This means that when you try to fool the VCP200 you will succeed, because it was not designed to recognize all words. It was designed to recognize specific words.

TYPICAL APPLICATION





Notes:

1. Always jumper Pin 18 to ground.
2. Do not connect jumper for Pins 16 and 17.
3. An SPST switch on Pin 19 to ground allows you to easily change the mode.
4. If you use a 9-volt supply, you only need the 7805. If you use a 6-volt supply, you only need CR1. You do not need to connect both.
5. If the ambient noise level is low, $R_4 = 30K$, $R_{10} = 10K$, $R_{11} = 10K$ lessens the need to speak loudly.
6. R4 sets the audio gain and might need to be adjusted, depending on the sensitivity of the microphone you select.

This circuit provides latched outputs for GO and REVERSE. This lets you combine GO or REVERSE with LEFT TURN or TURN RIGHT. Be sure to STOP before switching between GO and REVERSE.

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

Power dissipation
Maximum collector current
Maximum collector-to-emitter voltage
Maximum collector-to-base voltage
Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

Gain
Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even when making exact replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0000000FR1	1104	000073230	1617	001-0163-02	565	001-044474-001	2009	004-02700	1104	0049203-001	1104	01-201-0	2009
0000000FR2	1104	000073221	1617	001-0163-15	563	001-044476-001	1122	004-3	2020	0049203-007	1104	01-9011-5/2221-3	2009
0000000FR1	1104	000073290	2017	001-01901-0	1123	001-044477-001	2016	005-02	1617	00200118	1106	01-9013-7/2221-3	2009
0000000MV4	1122	000073290	1617	001-02101-0	1617	001-21011	1617	005-1	2020	008010028	1122	01-9014-2/2221-3	2009
000000DS13	1104	000073310	1617	001-02101-1	1617	001-222034	564	006-0000137A	2041	0031013929	2016	01-9016-4/2221-3	2009
0000001N60	1123	000073320	2017	001-02102-0	1617	001-226030	1104	006-0000146	1801	0031013045	2009	01-9018-6/2221-3	2009
00000010D1	1104	000073332	1617	001-02103-0	1617	002-006500	1617	006-0004443	2035	0031013049	2009	01-30828	2058
000000DS17	1104	000073333	1617	001-02104-0	1617	002-008300	2016	006-02	2023	0031013050	2023	01-30829	2009
000000DS18	1104	000073351	2016	001-02105-0	1617	002-009500	1617	007-0051-00	2030	0031013052	2023	01-57291	2020
000000DS-38	1104	000073361	2016	001-02106-0	1617	002-009502	1617	007-0051-01	2030	0031013056	2009	01-117005	2016
000000DS38	1104	000073370	2009	001-02107-0	1617	002-009502-12	1617	007-0112-00	2020	0031014002	1104	01-117006	2016
000000SD1AB	1104	000073380	2017	001-02108-0	1617	002-009600	2016	007-0119-04	2020	0031014009	1104	01-349418	2009
000000SD1Y	1104	000073390	1617	001-02109-0	1617	002-009601	2016	007-0214-00	2035	0031014021	1123	01-349423	1617
000000SD44	1123	000073391	1617	001-02110-0	1617	002-009601-12	2016	007-0214-01	2025	0031014022	1122	01-349426	2055
00000015188	1123	0000DS410E	1122	001-02111-0	2009	002-009800	2023	007-214-00	2035	0031014024	1102	01-349634	2009
000001S334	562	0000FR202	1104	001-02111-1	1617	002-009800A	2023	007-1695001	1801	0031014029	1122	01-349681	2023
000001S990	1122	0000RS1542	1104	001-02113-2	1617	002-009900	1617	007-1695301	1802	0031014030	1104	01-472814	2009
0000010DC1	1104	0000SD-1AUF	1122	001-02113-3	1617	002-03	1617	007-1699301	1822	0063050118	1104	01-571591	2023
0000015330A	565	000-04	1617	001-02113-4	1617	002-010300	2023	007-7450301C	2041	01-03945	2016	01-571751	2023
00000DS18	1101	0001S188	1123	001-02113-5	1617	002-010300A	2023	009-00	2055	01-010473	2027	01-571794	2016
00000DS-38	1114	0001S188AM	1123	001-02119-0	2030	002-010400	1617	0016	2009	01-010495	2023	01-571804	2009
00000DS131	1104	0001S188FM	1123	001-02121-0	1617	002-010500	2023	0019-002485A	2023	01-010562	2023	01-571811	2009
00000DS410	1122	0002SC373	1617	001-02201-0	2023	002-010500A	2023	0020-0191	2009	01-010564	2023	01-571891	2009
00000SIR01	1104	0002SC373W	2009	001-02203-0	565	002-010600	2030	0020-0191(,2SC945)		01-010626	2023	01-571941	1617
00000WZ090	562	0002SC458B	2009	001-02303-3	561	002-010800	1617		2009	01-010673	2023	01-572548	2023
0000-04	2009	0002SC458C	2009	001-02303-4	564	002-010900	2023	0020-0250	2009	01-010719	2023	01-572631	2055
0000-0141	2023	0002SC537F	2009	001-02405-0	1104	002-010900A	2023	0020-0330	2009	01-010733	2023	01-572774	2027
0000-0150	2023	0002SC644Q	2016	001-02405-1	1104	002-011400	2016	0020-0332	2009	01-010844	2023	01-572784	2020
0000-0300	2023	0002SC644S,R,Q	2016	001-02405-2	1104	002-011500	2016	0020-0351	2009	01-030372	2009	01-572791	2020
00001S155	1122	0002SC710B	2009	001-02406-0	1114	002-012000	1617	0020-0521	2058	01-030373	2016	01-572811	2023
00001S188	1122	0002SC710C	2009	001-02406-1	1114	002-012300	2027	0020-0571	2016	01-030380	2009	01-572614	2009
00001S330A	565	0002SC772C	2016	001-02601-0	1104	002-012400	2020	0030-0438	2009	01-030388	2009	01-572641	2020
00001S1553	1122	0002SC828	2009	001-02603-0	1104	002-012500	2035	0030-0091	2020	01-030394	2009	01-680818	2009
00001S1849	1104	0002SC828H	2009	001-02701-1	2035	002-012800	2023	0034-001	2023	01-030454	2009	01-690733	2023
00001S2076	1122	0002SC828Q	2009	001-02702-0	2035	002-013800A	2023	0050-0011	1123	01-030458	2009	01-690545	2009
00001S4460	1123	0002SC930D	2016	001-02703-0	2035	002-9501	2016	0050-0021	1123	01-030460	2009	01-691187	2058
00002SA550	2023	0002SC930E	2016	001-015010	1123	002-9502	2016	0050-0032	1123	01-030509	2009	01-691674	2016
00002SB435	2027	0002SC968P	2009	001-015011	1123	002-9502-12	2016	0050-0070	1122	01-030536	2009	01-700542	2023
00002SB460	2016	0002SC1023	2016	001-021010	2009	002-9601	2016	0050-0250	1122	01-030643	2055	01-ST-MPS9700D	2009
00002SB968	2009	0002SC1026	2016	001-021011	2009	002-9601-12	2016	0050-0300	1122	01-030668	2016	01K-4.6E	565
00002SC372	2009	0002SC1026A	2016	001-021020	2009	002-T800-A	2023	0050-0301	1122	01-030687	2016	01K-5.0E	565
00002SC460	2009	0002SC1026B	2016	001-021030	2009	003-12000	1617	0050-0302	1122	01-030710	2009	01K-5.2E	565
00002SC460A	2016	0002SC1026C	2016	001-021040	2009	0020135RT	2020	0051-0010	1104	01-030711	2009	01K5.4E	565
00002SC460B	2016	0002SC1032	2016	001-021050	2009	002SB435Y	2027	0051-0070	1104	01-030719	2023	01K-6.5E	561
00002SC460C	2016	0002SC1032A	2016	001-021060	2009	002SC460D	2016	0051-0100	1104	01-030732	2016	01K6.5E	561
00002SC461	2009	0002SC1032B	2016	001-021070	2016	002SC735-OY	2009	0051-0110	1104	01-030733	2023	01ST-MPS9700D	2009
00002SC535	2016	0002SC1032C	2016	001-021080	2009	002SC735OY	2009	0051-0130	1104	01-030734	2009	02-004558	038
00002SC536	2009	0002SC1061	2020	001-021090	2009	002SC1061	2017	0051-0160	1104	01-030735	2009	02-2SC458LGC	2009
00002SC537	2009	0002SC1061A	2020	001-021110	2030	002SC1209C	2009	0051-0290	1104 N1	01-030763	2016	02-1001-1/2221-3	1123
00002SC606	2016	0002SC1061B	2020	001-021111	2030	002SC7350Y	2009	0051-0291	1104 N2	01-030784	2058	02-1006-2/2221-3	1122
00002SC644	2016	0002SC1061C	2020	001-021130	2009	002SB325RY	2020	0051-0340	1104	01-030785	2058	02-1006-3/2221-3	1122
00002SC668	2016	0003-009700	563	001-021131	2009	003	1123	0051-0400	1020	01-030828	2009	02-3002-2/2221-3	1104
00002SC735	2009	00015J0N	1123	001-021132	2009	003-00	2016	0054-0020	561	01-030829	2009	02-3002-2/2221-3	1104
00002SC772	2058	000108GN	1122	001-021133	2009	003-00200	1123	0054-0191	565	01-030900	2016	02-33379-6	2030
00002SC828	2009	000546-1	1617	001-021134	2009	003-004200	1123	0054-0240	563	01-030936	2016	02-124432	705
00002SC829	2016	000704	2009	001-021135	2009	003-005400	1123	0054-0240(,RD-12EB)		01-030945	2009	02-257205	705
00002SC838	2009	0001849	1104	001-021136	2016	003-006700	1123		563	01-031047	2016	02-437205	705
00002SC858	2016	0001849R	1104	001-021172	2023	003-007500	1123	0054-0250	1122	01-031166	2009	02-455804	038
00002SC870	1617	00023645	2009	001-021180	2041	003-009000	1123	0099-1030	1101	01-031173	2020	02-RECT-UG-1004	1173
00002SC870A	1617	00031011049	2009	001-021190	2030	003-009100	564	0099-1040	1122	01-031175	2009	02-ST-2SC1815Y	2009
00002SC870B	1617	00031015043	2009	001-021200	2041	003-009200	1123	001422	1069	01-031218	2009	02SZ6.7	565
00002SC870C	1617	00031014021	1123	001-021210	1617	003-009400	1104	003002	1123	01-031298	2016	02P1B	2023
00002SC929	2016	00031014022	1122	001-021218	1617	003-009600	1123	003007	1104	01-031317	2009	02RECT-UG-1004	1173
00002SC930	2016	000WG1010	1122	001-021220-1	2041	003-009700	563	003008	1122	01-031318	2009	02ST-2SC1815	2009
00002SC945	2009	00	2016	001-021290	2030	003-009800	1104	003015	1104	01-031327	2016	02ST-2SC1815Y	2009
00002SC968	1617	001-0000-00	1123	001-022010	2023	003-0	1067	003016	1123	01-031359	2009	02ST-2SC1875	2055
00002SC1023	2009	001-00	1617	001-022020	2023	003-01	2058	003017	1122	01-031360	2016	02Z-6.2A	561
00002SC1026	2016	001-007-00	1104	001-023030	565	003-02000	1123	003023	1102	01-031364	2009	02Z6.2A	561
00002SC1032	2016	001-0010-00	1123	001-023033	561	003-010000	563	003102	562	01-031674	2016	02Z6.2W	561
00002SC1061	2020	001-0020-00	1123	001-023034	564	004-00	1617	003111	562	01-031675	2009	02Z9.1	562
00002SD235	2020	001-0030-0	1123	001-023037	565	004-0027-00	1104	003113	565	01-031685	2009	02Z-9.1A	562
000071150	2023	001-0032-00	1123	001-024010	1104	004-00900	1122	003114	563	01-031686	2058	02Z9.1A	562
000071151	2023	001-0073-00	1104	001-024020	1104	004-002000	1104	003107	1122	01-031687	2058	02Z12A	563
000072020	1104	001-0077-00	1104	001-024030	1104	004-002700	1104	003449	2058	01-031688	2058	02Z12GR	563
000072050	1104	001-0081	1122	001-024040	1104	004-002800	1104	003460	2016	01-031815	2009	02Z15	564
000072090	1123	001-0082-00	561	001-024051	1104	004-003000	1104	003461	2016	01-031855	2058	02Z15A	564
000072150	562	001-0095-00	1122	001-024052	1104	004-003300	1104	004567	1104	01-031906	2016	02Z62A	561
000072160	1123	001-0095-02	1122	001-024060	1143	004-003400	1104	004746	2023	01-031923	2058	03-0018-0	1104
000072190	562	001-02	2023	001-024061	1143	004-003600	1104	004763	1122	01-032057	2058	03-160	1123
000073070	2016	001-03	2023	001-024080	2009	004-003700	1101	004792	2016	01-032076	2009	03-460C	2016
000073080	2016	001-04	2023	001-026010	1122	004-003900	1104	004887	562	01-040224	2020	03-461B	2016
000073090	1617	001-0131-01	562	001-026030	1122	004-004000	1114	0072445	2016	01-040263	2020	03-535A	2016
000073100	1617	001-0133-00	1122	001-026040	1122	004-004100	1104	0073828	1617	01-040313	2020	03-1585-G	1617
000073110	2030	001-0133-00	1122	001-027030	2035	004-004200	1123	0073829	2016	01-040349	2020	03-3016	1104
000073120	1617	001-0151-00	1122	001-044272-002	2009	004-02300	1104	0044026-014	1617	01-040474	2020	03-921081	1123
000073130	1617	001-0151-01	1122	001-044273-002	2020	004-02100	1104	0044026-14	1617	01-040830	2035	03-931601	1104
000073140	2038	001-0152-00	1104	001-044277-002	1104	004-02400	1104	0049201-333	563	01-0318145	2016	03-931609	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
03-931642	1122	05-429602	1104	06-ST-2SC1906	2016	09-301039	2016	09-302189	1617	09-306007	1123	09-306212(RECT)	1114
03-931645	1123	05-480036	562	06ST-2SC1906	2016	09-301077	2023	09-302194	2016	09-306009	1123	09-306213	1104
03-931771	1123	05-480205	565	06X[illegible]	1067	09-302002	2009	09-302199	2016	09-306010	1123	09-306214	1104
03-931971	1104	05-480306	561	07-07439	2016	09-302003	2009	09-302201	2016	09-306012	1123	09-306219	1123
03-933943	563	05-490090	1123	07-72	2016	09-302004	2009	09-302204	1617	09-306019	1123	09-306220	564
03-SZ-RD12EB(AU)	563	05-490091	1123	07-5134-14	1123	09-302005	2016	09-302206	2009	09-306020	1123	09-306221	1122
03A03	1617	05-490095	1123	07-5160-15	1123	09-302006	2016	09-302207	2009	09-306024	564	09-306222	1122
03A04	2023	05-540001	1104	07-5331-86	561	09-302007	2009	09-302212	2009	09-306024(ZENER)	564	09-306225	1114
03A05	1617	05-540091	562	07-22816-90	1122	09-302009	2016	09-302215	2058	09-306031	1101	09-306226	1114
03A09	2035	05-540094	562	07-28777-70	2023	09-302010	2058	09-302216	2058	09-306033	1104	09-306227	1104
03A11	2009	05-540112	1104	07-28777-92	1122	09-302012	2009	09-302220	2016	09-306034	1104	09-306229	1123
03A12	2009	05-610046	1123	07-28777-100	561	09-302014	2016	09-302222	2009	09-306036	1123	09-306231	1122
03P05M	1067	05-750010	1104	07-28778-80	2009	09-302016	2009	09-302224	2016	09-306037	1123	09-306236	1122
03P1M	1067	05-860002	1104	07-28778-81	2023	09-302017	2016	09-302225	2009	09-306040	1123	09-306237	562
03P2M	1067	05-860091	562	07-28811-75	2023	09-302020	2009	09-302227	2009	09-306042	1104	09-306241	562
03P3M	1020	05-900006	1102	07-28815-76	2023	09-302028	2016	09-302236	2020	09-306042(DIO)	1114	09-306244	1122
03P4M	1020	05-931601	1104	07-28815-77	2023	09-302032	2016	09-302238	2055	09-306047	1123	09-306245	1104
03SZ-RD12EB	563	05-931609	1104	07-28815-82	2009	09-302033	2009	09-302240	2016	09-306049	1123	09-306247	562
03SZ-RD12EB(AO)	563	05-931642	1122	07-28815-84	2009	09-302034	2009	09-302241	2058	09-306050	1104	09-306248	1122
03SZ-RD12EB(AU)	563	05-931645	1122	07-28815-86	2009	09-302036	2016	09-302242	2058	09-306051	1123	09-306249	1104
04-000655-1	1122	05-931771	1123	07-28815-89	2016	09-302037	2016	09-302244	2009	09-306053	1114	09-306250	1104
04-00460-03	1617	05-931971	1104	07-28815-92	1104	09-302038	2009	09-302245	2058	09-306054	1104	09-306254	1104
04-00461-02	2016	05-932110	1123	07-28815-103	2017	09-302039	2009	09-302246	2055	09-306055	561	09-306255	1104
04-00535-02	2016	05-932943	562	07-28815-108	2023	09-302040	2009	09-302325	561	09-306057	1123	09-306257	1114
04-00535-06	2016	05-935101	1104	07-28815-116	1122	09-302041	2009	09-303018	2020	09-306058	1123	09-306263	1104
04-01585-06	1617	05-936470	1122	07-28815-118	1114 N2	09-302044	2016	09-303020	2020	09-306059	1104	09-306264	1104
04-01585-07	1617	05-990094	562	07-28815-119	1114 N1	09-302045	1617	09-303021	2020	09-306061	1123	09-306266	1122
04-01585-08	2016	05-ST-2SA844C	2023	07-28816-75	2009	09-302045-12	1617	09-303022	2017	09-306062	1122	09-306270	1123
04-02090-02	2009	05A	565	07-28816-76	1123	09-302053	2009	09-303031	2020	09-306063	1104	09-306274	1104
04-4600-02	2058	05A01	1122	07-28816-77	1104	09-302054	2009	09-303032	2020	09-306073	561	09-306283	1122
04-13850-06	1617	05A03	1122	07-28816-87	2023	09-302058	2009	09-303033	2020	09-306083	1114	09-306285	1104
04-38190-01	2035	05A05	1122	07-28816-88	2009	09-302061	2016	09-303043	2058	09-306088	1104	09-306287	562
04-46000-02	2058	05A06	1122	07-28816-89	1122	09-302065	2009	09-303058	1617	09-306093	1123	09-306290	1123
04-67000-01	2023	05A07	1104	07-28816-90	1122	09-302073	2016	09-304012	2023	09-306100	1114	09-306300	1104
04-ST-2SC945Q(AU)E		05AZ4.7	565	07-28816-91	1123	09-302074	2009	09-304017	2062	09-306102	1114	09-306301	1104
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1-801-304-15	2016	1AC15	564	1DZ61-C	1104	1G86	1123	1LE11B	1114	1N48	1123	1N71	1123
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1A0029	2009	1B759	563	1E11Z	563	1HC-25R	1104	1M5.1ZS10	565	1N60-FA1	1123	1N90	1123
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1A0034	1617	1BZ61-A	1104	1E12Z5	563	1HC-40F	1104	1M6.2ZS10	561	1N60-M3	1123	1N91	1123
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1A0077	2009	1C03	2020	1ET6	1104	1J2C1	1114 N2	1M15Z10	564	1N60FM1	1123	1N103	1123
1A0078	2009	1C05	1104	1ET7	1114	1J2Z1	1114 N1	1M15ZS5	564	1N60FMX	1123	1N104	1123
1A0079	1617	1C09	2020	1ET8	1114	1JH11F	1104	1M15ZS10	564	1N60G	1123	1N105	1123
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1A0081	1617	1C4	1104	1EZ4.7D	565	1JL50	1104	1M2086	1104	1N60GB	1123	1N108	1123
1A0083	2009	1C9.1Z	562	1EZ4.7D5	565	1JL51	1104	1M8513A	1104	1N60M	1123	1N109	1123
1A0084	2009	1C9.1ZA	562	1EZ4.7D10	565	1JL52	1104	1MA4	1104	1N60M3	1123	1N111	1123
1A01	2030	1C10	1114	1EZ4.7T10	565	1JL53	1104	1MJJ6.2	561	1N60MP	1123	1N112	1123
1A03	2030	1C12Z	563	1EZ5.1	565	1JL56	1104	1MJJ6.2A	561	1N60N	1123	1N113	1123
1A06	2030	1C12ZA	563	1EZ5.1D	565	1JL57	1104	1MJJ12	563	1N60P	1123	1N114	1123
1A07	2030	1C14	2020	1EZ5.1D5	565	1JL58	1114	1MJJ12A	563	1N60R	1123	1N115	1123
1A9.1M	562	1C15A	564	1EZ5.1D10	565	1JL59	1114	1MZ9.1T5	562	1N60S	1123	1N116	1123
1A9.1MA	562	1C15Z	564	1EZ5.1T10	565	1JL63	1114	1MZ9.1T10	562	1N60SD60	1123	1N116A	1123
1A9.1MB	562	1C15ZA	564	1EZ6.2D	561	1JL64	1114	1MZ9.1T20	562	1N60T	1123	1N117	1123
1A12M	563	1C73045	2020	1EZ6.2D5	561	1JZ61	1114	1N-22	1123	1N60TPGL	1123	1N117A	1123
1A12MA	563	1C744005	2016	1EZ6.2D10	561	1JZ61-A	1104	1N25	565	1N60TV	1123	1N118	1123
1A12MB	563	1D08	564	1EZ6.2T10	561	1JZ61-B	1104	1N25A	1122	1N60TVGL	1123	1N118A	1123
1A15M	564	1D2	1104	1EZ9.1	562	1JZ61-C	1104	1N31A	1123	1N60TV-TOGL	1123	1N119	1123
1A15MA	564	1D2C1	1114 N2	1EZ9.1D	562	1JZ61-D	1104	1N34	1123	1N60TVTP	1123	1N119A	1123
1A15MB	564	1D2C1LC2	1114 N2	1EZ9.1D5	562	1JZ61-K	1104	1N34A	1123	1N60TV-TPGL	1123	1N120	1123
1A17	2030	1D2Z1	1104	1EZ9.1D10	562	1JZ61-L	1104	1N34A(AU)	1123	1N60TVTPGL	1123	1N120A	1123
1A18	2030	1D4B1	1173	1EZ9.1T10	562	1JZ61-OR	1104	1N34AM	1123	1N60Z	1123	1N125	1123
1A59	565	1D4.7	565	1EZ12	563	1JZ61-Y	1104	1N34AS	1123	1N61A	1123	1N126	1123
1A60	565	1D4.7A	565	1EZ12D	563	1K2	1143	1N34A-T	1123	1N62	1123	1N126A	1123
1A62	561	1D4.7B	565	1EZ12D5	563	1K34A	1123	1N34A-Z	1123	1N63	1123	1N127	1123
1A10425	1104	1D5.1A	565	1EZ12D10	563	1K60	1123	1N34G	1123	1N63A	1123	1N128	1123
1A11184	1104	1D6.2A	561	1EZ12T10	563	1K60A	1123	1N34GA	1123	1N64	1123	1N128A	1123
1A11306	1123	1D6.2B	561	1EZ15	564	1K60R	1123	1N34M	1123	1N64A	1123	1N132	1123
1A11671	1104	1D6.2SA	561	1EZ15D	564	1K90	1123	1N34N	1123	1N64B	1123	1N133	1123
1A12214	1104	1D6.2SB	561	1EZ15D5	564	1K110	1123	1N34Z	1123	1N64G	1123	1N134	1123
1A12407	1104	1D8	1114	1EZ15D10	564	1K188	1123	1N35	1123	1N64GA	1123	1N135	1122
1A12688	562	1D10	1114	1EZ15T10	564	1K188FM	1123	1N36	1123	1N64P	1123	1N136	1123
1A12689	1123	1D100	1067	1F05	1104	1K188FM-1	1123	1N38	1123	1N65	1123	1N137	1123
1A12690	1104	1D101	1067	1F2	1104	1K261	1123	1N38A	1123	1N65A	1123	1N137A	1122
1A13219	1104	1D102	1067	1F8	1114	1KF20-04	1123	1N38B	1123	1N66	1123	1N137B	1122
1A13719	1104	1D103	1067	1F10	1114	1LE11	1114	1N39A	1102	1N66A	1123	1N138	1122
1A13720	1104	1D104	1067	1F14A	1104	1LE11-A	1114	1N40	1123	1N67	1123	1N138A	1122
1A14384	1123	1D261	1104	1FM2	1104	1LE11-B	1114	1N41	1123	1N67A	1123	1N138B	1122
1A15790	1104	1DC1	1104	1G01	1123	1LE11-C	1114	1N42	1123	1N67D	1123	1N139	1123
1A16549	1122	1DG2	1123	1G2Z	1104	1LE11-D	1114	1N43	1123	1N68	1123	1N140	1123
1A16550	1104	1DH62	1102	1G2Z1	1104 N1	1LE11-K	1114	1N44	1123	1N68A	1123	1N141	1123
1A16551	1122	1DZ12	563	1G4B1	1173	1LE11-L	1114	1N45	1123	1N69	1123	1N142	1123
1AC12	563	1DZ61	1104	1G4B41	1173	1LE11-OR	1114	1N46	1123	1N69A	1123	1N143	1123
1AC12A	563	1DZ61-A	1104	1G8	1114	1LE11-Y	1114	1N46A	1123	1N70	1123	1N144	1123
1AC12B	563	1DZ61-B	1104	1G25	1123	1LE11A	1114	1N47	1123	1N70A	1123	1N145	1123

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N148	1123	1N303	1122	1N400B	1104	1N483BM	1122	1N602	1104	1N695A	1123	1N811M	1122
1N151	1104	1N303A	1122	1N417	1123	1N483C	1122	1N602A	1104	1N696	1122	1N812	1122
1N152	1104	1N303B	1122	1N418	1123	1N483M	1104	1N603	1104	1N697	1122	1N812M	1122
1N153	1104	1N304	1123	1N419	1123	1N483TH	1104	1N603A	1104	1N698	1123	1N813	1122
1N158	1104	1N305	1123	1N429	561	1N484	1122	1N604	1104	1N699	1123	1N813M	1122
1N169	1104	1N306	1123	1N431	1122	1N484A	1122	1N604A	1104	1N705	565	1N814	1122
1N191	1123	1N307	1123	1N432	1122	1N484B	1122	1N605	1104	1N705A	565	1N814M	1122
1N192	1123	1N308	1123	1N432A	1122	1N484C	1122	1N605A	1104	1N709	561	1N815	1122
1N194	1122	1N309	1123	1N432B	1122	1N484TH	1104	1N606	1104	1N709A	561	1N815M	1122
1N194A	1122	1N310	1123	1N433	1122	1N485	1122	1N606A	1104	1N709B	561	1N816	1122
1N194B	1122	1N312	1123	1N433A	1122	1N485A	1122	1N616	1123	1N713	562	1N817	1122
1N195	1122	1N313	1123	1N433B	1122	1N485B	1122	1N617	1123	1N713A	562	1N818	1122
1N196	1122	1N314	1123	1N434	1122	1N485C	1122	1N618	1123	1N713B	562	1N818M	1122
1N198	1123	1N315	1104	1N434A	1122	1N485TH	1104	1N619	1122	1N716	563	1N819	1104
1N198A	1123	1N315A	1104	1N434B	1122	1N486	1122	1N622	1122	1N716A	563	1N821	561
1N198B	1123	1N316	1104	1N435	1123	1N486A	1122	1N625	1122	1N716B	563	1N821A	561
1N198N	1123	1N316A	1104	1N440	1104	1N486B	1122	1N625A	1122	1N718	564	1N822	561
1N200	1122	1N317	1104	1N440B	1104	1N486TH	1104	1N625M	1122	1N718A	564	1N822A	561
1N200AR	1122	1N317A	1104	1N441	1104	1N487TH	1104	1N626	1122	1N718B	564	1N822AG	561
1N201	1122	1N318	1104	1N441B	1104	1N488TH	1104	1N626A	1122	1N750	565	1N823	561
1N202	1122	1N318A	1104	1N442	1104	1N490	1123	1N626M	1122	1N750A	565	1N823A	561
1N203	1122	1N319	1104	1N442B	1104	1N492	563	1N627	1122	1N751	565	1N824	561
1N204	1122	1N319A	1104	1N443	1104	1N493	563	1N627A	1122	1N751A	565	1N824A	561
1N205	1122	1N320	1104	1N443B	1104	1N497	1123	1N628	1122	1N753	561	1N825	561
1N206	1122	1N320A	1104	1N444	1104	1N498	1123	1N628A	1122	1N753A	561	1N825A	561
1N207	1122	1N321	1114	1N444B	1104	1N499	1123	1N629	1122	1N757	562	1N827	561
1N208	1122	1N321A	1114	1N445	1104	1N500	1123	1N629A	1122	1N757A	562	1N827A	561
1N209	1122	1N322	1114	1N445B	1104	1N501	1123	1N631	1123	1N759	563	1N829	561
1N210	1122	1N322A	1114	1N446	1123	1N503	1104	1N632	1123	1N759A	563	1N829A	561
1N211	1122	1N323	1104	1N447	1123	1N504	1104	1N633	1122	1N760	1122	1N835	1123
1N212	1122	1N323A	1104	1N448	1123	1N505	1104	1N636	1123	1N761	565	1N837	1122
1N213	1122	1N324	1104	1N449	1123	1N506	1104	1N636A	1123	1N761-1	565	1N837A	1122
1N214	1122	1N324A	1104	1N450	1123	1N507	1104	1N643	1122	1N761-2	565	1N838	1122
1N215	1122	1N325	1104	1N451	1123	1N508	1104	1N643A	1122	1N761A	565	1N839	1122
1N216	1122	1N325A	1104	1N452	1123	1N509	1114	1N645	1104	1N764	562	1N840	1122
1N217	1122	1N326	1104	1N453	1123	1N510	1114	1N645-1	1104	1N764-2	562	1N840M	1122
1N218	1122	1N326A	1104	1N454	1123	1N511	1104	1N645A	1103	1N764-3	562	1N841	1122
1N219	1103	1N327	1104	1N455	1123	1N512	1104	1N645B	1103	1N764-4	562	1N842	1122
1N220	1103	1N327A	1104	1N456	1122	1N513	1104	1N645J	1103	1N764A	562	1N843	1122
1N221	1103	1N328	1114	1N456A	1122	1N514	1104	1N645TH	1104	1N766-1	563	1N844	1122
1N222	1103	1N328A	1114	1N457	1122	1N515	1104	1N646	1104	1N767-1	564	1N845	1122
1N225	562	1N329	1114	1N457A	1122	1N516	1104	1N646TH	1104	1N770	1123	1N846	1104
1N225A	562	1N329A	1114	1N457AM	1104	1N517	1114	1N647	1104	1N771	1123	1N847	1104
1N251	1122	1N330	1122	1N457M	1122	1N518	1114	1N647-1	1104	1N771A	1123	1N848	1104
1N251A	1122	1N331	1122	1N458	1122	1N519	1104	1N647TH	1104	1N771B	1123	1N849	1104
1N252	1122	1N350	1122	1N458A	1122	1N520	1104	1N648	1104	1N772	1122	1N850	1104
1N252A	1122	1N351	1122	1N458AM	1122	1N521	1104	1N648TH	1104	1N772A	1123	1N851	1104
1N265	1123	1N352	1122	1N458M	1122	1N522	1104	1N649	1104	1N773	1123	1N852	1104
1N266	1123	1N353	1122	1N459	1122	1N523	1104	1N649-1	1104	1N773A	1123	1N853	1114
1N267	1123	1N354	1103	1N459A	1122	1N524	1104	1N649TH	1104	1N774	1123	1N854	1114
1N268	1123	1N355	1123	1N459M	1122	1N525	1114	1N658	1122	1N774A	1123	1N855	1114
1N270	1123	1N359	1104	1N460	1122	1N526	1114	1N658A	1122	1N775	1123	1N856	1114
1N273	1123	1N359A	1104	1N460A	1122	1N527	1123	1N658M	1122	1N776	1123	1N857	1104
1N276	1123	1N360	1104	1N460B	1122	1N530	1104	1N659	1122	1N777	1123	1N858	1104
1N277	1123	1N360A	1104	1N461	1122	1N531	1104	1N659/A	1122	1N778	1122	1N859	1104
1N278	1123	1N361	1104	1N461A	1122	1N532	1104	1N659A	1122	1N779	1122	1N860	1104
1N279	1123	1N361A	1104	1N462	1122	1N533	1104	1N660	1122	1N781	1123	1N861	1104
1N281	1123	1N362	1104	1N462A	1104	1N534	1104	1N660A	1122	1N781A	1123	1N862	1104
1N282	1123	1N362A	1104	1N462AM	1104	1N535	1104	1N661	1122	1N788	1122	1N863	1104
1N283	1123	1N363	1104	1N462M	1122	1N536	1104	1N661A	1122	1N789	1122	1N864	1114
1N285	1123	1N363A	1104	1N463	1122	1N537	1104	1N662	1122	1N789M	1122	1N865	1114
1N287	1123	1N364	1114	1N463A	1122	1N538	1104	1N662A	1122	1N790	1122	1N866	1114
1N288	1123	1N364A	1114	1N464	1122	1N539	1104	1N663	1122	1N790M	1122	1N867	1114
1N289	1123	1N365	1114	1N464A	1122	1N540	1104	1N663A	1122	1N791	1122	1N868	1104
1N290	1123	1N365A	1114	1N468	565	1N541	1123	1N663M	1122	1N791M	1122	1N869	1104
1N291	1123	1N367	1123	1N468A	565	1N542	1123	1N665	563	1N792	1122	1N870	1104
1N292	1123	1N367B	1123	1N473	565	1N542A	1123	1N666	564	1N792M	1122	1N871	1104
1N294	1123	1N368	1104	1N473A	565	1N542MP	1123	1N673	1104	1N793	1122	1N872	1104
1N294A	1123	1N376	565	1N473B	565	1N547	1104	1N674	565	1N793M	1122	1N873	1104
1N295	1123	1N377	561	1N476	1123	1N548	1114	1N675	561	1N794	1122	1N874	1104
1N295A	1123	1N379	1122	1N477	1123	1N560	1114	1N676	1104	1N795	1122	1N875	1114
1N295S	1123	1N380	1122	1N478	1123	1N561	1114	1N677	1104	1N796	1122	1N876	1114
1N295X	1123	1N381	1122	1N479	1123	1N564	1123	1N678	1104	1N797	1122	1N877	1114
1N296	1123	1N382	1122	1N480	1123	1N568	1123	1N679	1104	1N798	1122	1N878	1114
1N297	1123	1N383	1122	1N480B	1104	1N569	1123	1N681	1104	1N799	1122	1N879	1104
1N297A	1123	1N384	1122	1N482	1122	1N571	1123	1N682	1104	1N800	1122	1N880	1104
1N298	1123	1N385	1122	1N482A	1122	1N596	1104	1N683	1104	1N801	1122	1N881	1104
1N298A	1123	1N386	1122	1N482AM	1122	1N597	1114	1N684	1104	1N802	1122	1N881B	1104
1N300	1122	1N387	1122	1N482B	1122	1N598	1114	1N685	1104	1N803	1122	1N882	1104
1N300A	1122	1N388	1122	1N482BM	1122	1N599	1104	1N686	1104	1N804	1122	1N883	1104
1N300B	1122	1N389	1122	1N482C	1122	1N599A	1104	1N687	1104	1N805	1123	1N884	1104
1N301	1122	1N390	1122	1N482M	1122	1N600	1104	1N689	1104	1N806	1122	1N885	1104
1N301A	1122	1N391	1122	1N482TH	1104	1N600A	1104	1N690	1122	1N807	1122	1N886	1114
1N301B	1122	1N392	1122	1N483	1122	1N600KB	1122	1N691	1122	1N808	1122	1N887	1114
1N302	1122	1N393	1122	1N483A	1122	1N601	1104	1N692	1122	1N809	1122	1N888	1114
1N302A	1122	1N394	1122	1N483AM	1122	1N601A	1104	1N693	1122	1N810	1122	1N889	1114
1N302B	1122	1N400	1104	1N483B	1122	1N601S34	1123	1N695	1123	1N811	1122	1N890	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N890M	1122	1N941	563	1N1221B	1144	1N1646	1143	1N1988B	564	1N2399	1141	1N3066	1122
1N891	1122	1N941A	563	1N1222	1144	1N1647	1143	1N2013	1141	1N2400	1143	1N3067	1122
1N892	1122	1N941B	563	1N1222A	1144	1N1648	1144	1N2014	1143	1N2401	1143	1N3068	1122
1N897	1122	1N942	563	1N1222B	1144	1N1649	1144	1N2015	1143	1N2402	1144	1N3069	1122
1N898	1122	1N942A	563	1N1225	1114	1N1650	1144	1N2016	1143	1N2403	1144	1N3069M	1122
1N899	1122	1N942B	563	1N1225A	1114	1N1651	1144	1N2017	1144	1N2408	1141	1N3070	1122
1N900	1122	1N943	563	1N1225B	1114	1N1692	1104	1N2018	1144	1N2409	1143	1N3071	1122
1N901	1122	1N943A	563	1N1226	1114	1N1693	1104	1N2019	1144	1N2410	1143	1N3072	1141
1N902	1122	1N943B	563	1N1226A	1114	1N1694	1104	1N2020	1144	1N2411	1144	1N3073	1143
1N903	1122	1N944	563	1N1226B	1114	1N1695	1104	1N2026	1141	1N2412	1144	1N3074	1143
1N903/A	1122	1N944A	563	1N1251	1104	1N1696	1104	1N2032	565	1N2417	1114	1N3075	1143
1N903A	1122	1N944B	563	1N1252	1104	1N1697	1104	1N2032-1	565	1N2418	1114	1N3076	1144
1N903AM	1122	1N945	563	1N1253	1104	1N1701	1104	1N2032-2	565	1N2419	1114	1N3077	1144
1N903M	1122	1N945A	563	1N1254	1104	1N1702	1104	1N2032A	565	1N2420	1114	1N3078	1144
1N904	1122	1N945B	563	1N1255	1104	1N1703	1104	1N2033	561	1N2421	1114	1N3079	1144
1N904/A	1122	1N946	563	1N1255A	1104	1N1704	1104	1N2033-2	561	1N2422	1114	1N3082	1143
1N904A	1122	1N946A	563	1N1256	1104	1N1705	1104	1N2035	562	1N2423	1114	1N3083	1144
1N904AM	1122	1N946B	563	1N1257	1104	1N1706	1104	1N2035-2	562	1N2424	1114	1N3094	1104
1N904M	1122	1N947	1104	1N1258	1114	1N1707	1104	1N2035-3	562	1N2425	1114	1N3108	562
1N905	1122	1N948	1122	1N1259	1114	1N1708	1104	1N2035-4	562	1N2482	1104	1N3110	1123
1N905/A	1122	1N949	1123	1N1260	1114	1N1709	1104	1N2037-1	563	1N2483	1104	1N3112	2030
1N905A	1122	1N960	562	1N1261	1114	1N1710	1104	1N2037A	563	1N2484	1104	1N3121	1123
1N905AM	1122	1N960A	562	1N1313	562	1N1711	1104	1N2038-1	564	1N2485	1104	1N3122	1123
1N905M	1122	1N960B	562	1N1313A	562	1N1712	1104	1N2069	1104	1N2486	1104	1N3123	1122
1N906	1122	1N963	563	1N1337-5	1104	1N1713	563	1N2069A	1104	1N2487	1104	1N3124	1122
1N906/A	1122	1N963A	563	1N1391	1123	1N1730	1114	1N2070	1104	1N2488	1104	1N3125	1123
1N906A	1122	1N963B	563	1N1406	1104	1N1730A	1114	1N2070A	1104	1N2489	1104	1N3146	1123
1N906AM	1122	1N965	564	1N1407	1114	1N1735	561	1N2071	1104	1N2609	1104	1N3147	1122
1N906M	1122	1N965A	564	1N1408	1114	1N1736	563	1N2071A	1104	1N2610	1104	1N3148	562
1N907	1122	1N965B	564	1N1415	1104	1N1736A	563	1N2072	1104	1N2611	1104	1N3160	1104
1N907/A	1122	1N993	1122	1N1426	563	1N1763	1104	1N2073	1104	1N2612	1104	1N3179	1102
1N907A	1122	1N994	1123	1N1427	564	1N1763A	1144	1N2074	1104	1N2613	1144	1N3180	1102
1N907AM	1122	1N995	1123	1N1439	1104	1N1764	1104	1N2075	1104	1N2614	1104	1N3183	1104
1N907M	1122	1N995M	1123	1N1440	1104	1N1766	561	1N2076	1104	1N2615	1104	1N3184	1104
1N908	1122	1N996	1123	1N1441	1104	1N1766A	561	1N2077	1104	1N2616	1114	1N3185	1114
1N908/A	1122	1N997	1122	1N1442	1104	1N1770	562	1N2078	1104	1N2617	1114	1N3186	1114
1N908A	1122	1N998	1104	1N1443	1114	1N1770A	562	1N2079	1104	1N2620	562	1N3189	1104
1N908AM	1122	1N999	1122	1N1443A	1114	1N1773	563	1N2080	1104	1N2620A	562	1N3190	1104
1N908M	1122	1N1008	1104	1N1443B	1114	1N1773A	563	1N2081	1104	1N2620B	562	1N3191	1104
1N909	1123	1N1028	1104	1N1484	565	1N1775	564	1N2082	1104	1N2621	562	1N3193	1104
1N910	1123	1N1029	1104	1N1485	561	1N1775A	564	1N2083	1104	1N2621A	562	1N3194	1104
1N911	1123	1N1030	1104	1N1486	1104	1N1779	561	1N2084	1104	1N2621B	562	1N3195	1104
1N914	1122	1N1031	1104	1N1487	1104	1N1839	1122	1N2085	1104	1N2622	562	1N3196	1114
1N914/A/B	1122	1N1032	1104	1N1488	1104	1N1840	1122	1N2086	1104	1N2622A	562	1N3197	1122
1N914A	1122	1N1033	1104	1N1489	1104	1N1841	1122	1N2088	1104	1N2622B	562	1N3203	1104
1N914B	1122	1N1052	1104	1N1490	1104	1N1842	1122	1N2089	1104	1N2623	562	1N3204	1123
1N914F	1122	1N1053	1104	1N1491	1104	1N1843	1122	1N2090	1104	1N2623A	562	1N3206	1122
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1N916	1122	1N1056	1114	1N1508A	565	1N1846	1122	1N2093	1104	1N2624A	562	1N3223	1122
1N916A	1122	1N1057	1114	1N1513	563	1N1847	1122	1N2094	1104	1N2624B	562	1N3227	1143
1N916B	1122	1N1081	1104	1N1513A	563	1N1848	1122	1N2095	1104	1N2638	1104	1N3228	1143
1N917	1122	1N1081A	1104	1N1514	564	1N1849	1103	1N2096	1104	1N2650	1104	1N3237	1141
1N919	1122	1N1082	1104	1N1514A	564	1N1850	1103	1N2103	1104	1N2653	1114	1N3238	1143
1N920	1122	1N1082A	1104	1N1519	565	1N1877	563	1N2104	1104	1N2790	562	1N3239	1143
1N921	1122	1N1083	1104	1N1519A	565	1N1877A	563	1N2105	1104	1N2801	1123	1N3240	1144
1N922	1122	1N1083A	1104	1N1524	563	1N1878	564	1N2106	1104	1N2858	1104	1N3246	1141
1N923	1122	1N1084	1104	1N1524A	563	1N1878A	564	1N2107	1104	1N2858A	1141	1N3247	1143
1N924	1122	1N1084A	1104	1N1525	564	1N1907	1104	1N2108	1104	1N2859	1143	1N3248	1143
1N925	1122	1N1093	1123	1N1525A	564	1N1908	1104	1N2115	1104	1N2859A	1143	1N3249	1144
1N926	1122	1N1095	1104	1N1530	562	1N1909	1104	1N2116	1104	1N2860	1104	1N3253	1104
1N927	1122	1N1096	1104	1N1530A	562	1N1910	1144	1N2117	1104	1N2860A	1143	1N3254	1104
1N928	1122	1N1100	1104	1N1556	1143	1N1911	1104	1N2163	562	1N2861	1104	1N3255	1104
1N929	1122	1N1101	1104	1N1557	1143	1N1912	1104	1N2163A	562	1N2861A	1144	1N3256	1114
1N930	1122	1N1102	1104	1N1558	1144	1N1913	1104	1N2164	562	1N2862	1104	1N3257	1122
1N931	1122	1N1103	1104	1N1559	1144	1N1914	1114	1N2164A	562	1N2862A	1144	1N3258	1122
1N932	1122	1N1104	1104	1N1561	1123	1N1915	1114	1N2165	562	1N2863	1104	1N3277	1104
1N933	1122	1N1104R	1104	1N1562	1123	1N1916	1114	1N2165A	562	1N2864	1104	1N3278	1104
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1N935	562	1N1108	1114	1N1563A	1104	1N1928A	565	1N2166A	562	1N2879	1114	1N3280	1114
1N935A	562	1N1122A	1104	1N1564	1143	1N1933	563	1N2167	562	1N2880	1114	1N3281	1114
1N935B	562	1N1169	1104	1N1564A	1104	1N1933A	563	1N2167A	562	1N2881	1114	1N3282	1114
1N936	562	1N1169A	1104	1N1565	1144	1N1934	564	1N2168	562	1N2882	1114	1N3287	1123
1N936A	562	1N1217	1114	1N1565A	1104	1N1934A	564	1N2168A	562	1N2883	1114	1N3287N	1123
1N936B	562	1N1217A	1114	1N1566	1144	1N1934B	564	1N2169	562	1N3019	562	1N3287W	1123
1N937	562	1N1217B	1114	1N1566A	1104	1N1955	565	1N2169A	562	1N3019A	562	1N3298	1104
1N937A	562	1N1218	1114	1N1567A	1104	1N1955A	565	1N2170	562	1N3019B	562	1N3381	1101
1N937B	562	1N1218A	1114	1N1568A	1104	1N1960	563	1N2170A	562	1N3022	563	1N3382	1122
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1N938A	562	1N1219	1114	1N1617AR	1143	1N1960B	563	1N2171A	562	1N3022B	563	1N3384	1104
1N938B	562	1N1219A	1114	1N1618	1104	1N1982	565	1N2181	1104	1N3024	564	1N3385	1104
1N939	562	1N1219B	1114	1N1619	1104	1N1982A	565	1N2323	1104	1N3024A	564	1N3386	1102
1N939A	562	1N1220	1143	1N1620	1104	1N1987	563	1N2390	1141	1N3024B	564	1N3387	1102
1N939B	562	1N1220A	1143	1N1630	1122	1N1987A	563	1N2391	1143	1N3062	1122	1N3388	1103
1N940	562	1N1220B	1143	1N1638	1122	1N1987B	563	1N2392	1143	1N3063	1122	1N3389	1103
1N940A	562	1N1221	1144	1N1644	1141	1N1988	564	1N2393	1144	1N3064	1122	1N3390	1103
1N940B	562	1N1221A	1144	1N1645	1143	1N1988A	564	1N2394	1144	1N3065	1122	1N3403	563

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N3404	564	1N3626	1122	1N4001GP	1101	1N4297A	562	1N4567	561	1N4744A	564	1N4951	1122
1N3411	561	1N3629	1104	1N4002	1104	1N4298	562	1N4567A	561	1N4765	562	1N4952	1122
1N3416	563	1N3630	1104	1N4002A	1104	1N4298A	562	1N4568	561	1N4765A	562	1N4997	1141
1N3417	564	1N3631	1104	1N4002G	1104	1N4299B	563	1N4568A	561	1N4765B	562	1N4997R	1114
1N3465	1123	1N3632	1104	1N4002GP	1104	1N4300B	563	1N4569	561	1N4766	562	1N4998	1143
1N3466	1123	1N3633	1104	1N4002L	1104	1N4302	562	1N4569A	561	1N4766A	562	1N4998R	1114
1N3467	1123	1N3634	1104	1N4002TA	1104	1N4302A	562	1N4570	561	1N4766B	562	1N4999	1143
1N3468	1123	1N3635	1114	1N4003	1102	1N4303B	563	1N4570A	561	1N4767	562	1N4999R	1114
1N3469	1123	1N3636	1114	1N4003A	1102	1N4304B	563	1N4571	561	1N4767A	562	1N5000	1144
1N3470	1123	1N3637	1114	1N4003G	1102	1N4305	1122	1N4571A	561	1N4767B	562	1N5000R	1114
1N3471	1122	1N3638	1114	1N4003GP	1102	1N4305F	1122	1N4572	561	1N4768	562	1N5001R	1114
1N3473	1104	1N3639	1104	1N4003PX	1102	1N4306	1122	1N4572A	561	1N4768A	562	1N5002R	1114
1N3474	1104	1N3640	1104	1N4003RL	1102	1N4307	1122	1N4573	561	1N4768B	562	1N5003R	1114
1N3475	1104	1N3641	1104	1N4003TA	1102	1N4308	1122	1N4573A	561	1N4769	562	1N5004	1143
1N3476	1114	1N3642	1114	1N4004	1103	1N4309	1122	1N4574	561	1N4769A	562	1N5005	1143
1N3482	1123	1N3643	1114	1N4004A	1103	1N4311	1122	1N4574A	561	1N4769B	562	1N5006	1144
1N3483	1123	1N3653	1122	1N4004G	1103	1N4315	1122	1N4575	561	1N4770	562	1N5054	1114
1N3484	1123	1N3654	1122	1N4004GP	1103	1N4318	1122	1N4575A	561	1N4770A	562	1N5055	1143
1N3486	1143	1N3656	1143	1N4004TA	1103	1N4322	1122	1N4576	561	1N4770B	562	1N5056	1143
1N3496	561	1N3657	1144	1N4005	1104	1N4326	562	1N4576A	561	1N4771	562	1N5057	1144
1N3497	561	1N3666	1122	1N4005GP	1104	1N4326A	562	1N4577	561	1N4771A	562	1N5058	1144
1N3498	561	1N3668	1122	1N4006	1114	1N4326B	562	1N4577A	561	1N4771B	562	1N5059GP	1102
1N3499	561	1N3669	1104	1N4006GP	1114	1N4329	563	1N4578	561	1N4772	562	1N5060GP	1103
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1N3510	565	1N3678A	562	1N4007GP	1114	1N4329B	563	1N4579	561	1N4772B	562	1N5062GP	1114
1N3511	565	1N3678B	562	1N4009	1122	1N4331	564	1N4579A	561	1N4773	562	1N5170	1114
1N3513	561	1N3681	563	1N4010	561	1N4331A	564	1N4580	561	1N4773A	562	1N5171	1141
1N3517	562	1N3681A	563	1N4011	1114	1N4331B	564	1N4580A	561	1N4773B	562	1N5172	1114
1N3520	563	1N3681B	563	1N4043	1122	1N4361	1114	1N4581	561	1N4774	562	1N5173	1144
1N3522	564	1N3683	564	1N4087	1122	1N4363	1122	1N4581A	561	1N4774A	562	1N5174	1144
1N3537	563	1N3683A	564	1N4088	1123	1N4364	1104	1N4582	561	1N4774B	562	1N5177	1114
1N3544	1104	1N3683B	564	1N4089	1144	1N4365	1171	1N4582A	561	1N4775	562	1N5178	1114
1N3545	1104	1N3722	1122	1N4092	1122	1N4366	1171	1N4583	563	1N4775A	562	1N5179	1122
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1N3547	1104	1N3731	1104	1N4095	565	1N4368	1104	1N4583B	561	1N4776A	562	1N5194	1122
1N3548	1104	1N3732	565	1N4102	562	1N4369	1104	1N4584	561	1N4777	562	1N5195	1122
1N3549	1104	1N3736A	561	1N4103	562	1N4375	1122	1N4584A	561	1N4777A	562	1N5196	1122
1N3550	1122	1N3748	1143	1N4103A	562	1N4376	1122	1N4585GP	1114	1N4778	562	1N5197	1141
1N3553	561	1N3749	1144	1N4106	563	1N4382	1122	1N4586GP	1114	1N4778A	562	1N5199	1143
1N3559	1123	1N3753	1123	1N4106A	563	1N4383	1104	1N4606	1122	1N4779	562	1N5200	1144
1N3564	1123	1N3754	1104	1N4109	564	1N4383GP	1102	1N4606R	1122	1N4779A	562	1N5208	1122
1N3575	1122	1N3755	1143	1N4139	1141	1N4384	1104	1N4607	1122	1N4780	562	1N5209	1122
1N3576	1122	1N3756	1144	1N4140	1143	1N4384GP	1103	1N4608	1122	1N4780A	562	1N5210	1122
1N3577	1122	1N3757	1143	1N4141	1143	1N4385	1104	1N4610	1122	1N4781	562	1N5211	1104
1N3578	1103	1N3758	1144	1N4142	1144	1N4385GP	1104	1N4624	565	1N4781A	562	1N5212	1104
1N3579	1103	1N3769	1123	1N4147	1122	1N4389	1122	1N4625	565	1N4782	562	1N5213	1104
1N3580	563	1N3773	1123	1N4148	1122	1N4392	1122	1N4627	561	1N4782A	562	1N5214	1114
1N3580A	563	1N3782	563	1N4148(AU)	1122	1N4395	1122	1N4631	562	1N4783	562	1N5215	1104
1N3580B	563	1N3782A	563	1N4148F	1122	1N4395A	1122	1N4634	563	1N4783A	562	1N5216	1104
1N3581	563	1N3782B	563	1N4148T	1122	1N4403	562	1N4636	564	1N4784	562	1N5217	1104
1N3581A	563	1N3784	563	1N4148TD	1122	1N4403A	562	1N4653	565	1N4784A	562	1N5218	1114
1N3581B	563	1N3784A	563	1N4148TE	1122	1N4403B	562	1N4654	565	1N4816	1141	1N5219	1122
1N3582	563	1N3784B	563	1N4148V	1122	1N4406	563	1N4656	561	1N4817	1114	1N5220	1122
1N3582A	563	1N3825	565	1N4149	1122	1N4406A	563	1N4660	562	1N4818	1114	1N5230	565
1N3582B	563	1N3825A	565	1N4150	1122	1N4406B	563	1N4663	563	1N4819	1144	1N5230A	565
1N3583	563	1N3826	565	1N4150V	1122	1N4408	564	1N4665	564	1N4820	1144	1N5230B	565
1N3583A	563	1N3826A	565	1N4151	1122	1N4408A	564	1N4688	565	1N4823	1104	1N5231	565
1N3583B	563	1N3828	561	1N4152	1122	1N4408B	564	1N4689	565	1N4824	1104	1N5231A	565
1N3584	563	1N3828A	561	1N4153	1122	1N4444	1122	1N4691	561	1N4825	1104	1N5231B	565
1N3584A	563	1N3855A	562	1N4154	1122	1N4446	1122	1N4695	562	1N4827	1122	1N5234	561
1N3584B	563	1N3864	1122	1N4156	1122	1N4447	1122	1N4696	562	1N4828	1122	1N5234A	561
1N3592	1123	1N3865	1101	1N4157	1122	1N4448	1122	1N4699	563	1N4829	1122	1N5234B	561
1N3593	1122	1N3866	1143	1N4161	562	1N4449	1122	1N4702	564	1N4830	1122	1N5238	562
1N3594	1122	1N3867	1144	1N4161A	562	1N4450	1122	1N4718	1101	1N4861	1122	1N5238-BRL	562
1N3595	1122	1N3872	1122	1N4161B	562	1N4451	1122	1N4719	1141	1N4862	1122	1N5238A	562
1N3596	1122	1N3873	1122	1N4164	563	1N4453	1122	1N4719R	1114	1N4863	1122	1N5238B	562
1N3598	1122	1N3874	1101	1N4164A	563	1N4454	1122	1N4720	1143	1N4864	1122	1N5239	562
1N3599	1122	1N3875	1104	1N4164B	563	1N4455	1122	1N4720R	1114	1N4933	1104	1N5239A	562
1N3600	1122	1N3894	1103	1N4166	564	1N4499	561	1N4721	1143	1N4933GP	1104	1N5239B	562
1N3601	1122	1N3895	1103	1N4166A	564	1N4502	1123	1N4721R	1143	1N4934	1104	1N5242	563
1N3602	1122	1N3914	1101	1N4166B	564	1N4512	1101	1N4722	1144	1N4934GP	1104	1N5242A	563
1N3603	1122	1N3929	1114	1N4242	1122	1N4517	1143	1N4722R	1114	1N4935	1104	1N5242B	563
1N3604	1122	1N3938	1143	1N4243	1122	1N4523	1123	1N4723R	1114	1N4935GP	1104	1N5245	564
1N3605	1122	1N3939	1144	1N4244	1122	1N4531	1122	1N4724R	1114	1N4936	1104	1N5245A	564
1N3606	1122	1N3947	561	1N4245	1102	1N4532	1122	1N4725R	1114	1N4936GP	1104	1N5245B	564
1N3607	1122	1N3952	1143	1N4245GP	1102	1N4533	1122	1N4726	1122	1N4937	1104	1N5282	1122
1N3608	1122	1N3953	1122	1N4246	1104	1N4534	1122	1N4727	1122	1N4937GP	1104	1N5315	1122
1N3609	1122	1N3954	1122	1N4246GP	1103	1N4536	1122	1N4732	565	1N4938	1122	1N5316	1122
1N3611	1102	1N3956	1122	1N4247	1104	1N4541	1103	1N4732A	565	1N4942	1104	1N5317	1122
1N3611GP	1102	1N3957	1114	1N4247GP	1104	1N4542	1103	1N4733	565	1N4942GP	1104	1N5318	1122
1N3612	1103	1N3957GP	1114	1N4248	1114	1N4545	1114	1N4735	561	1N4943	1114	1N5319	1122
1N3612GP	1103	1N3981	1143	1N4248GP	1114	1N4547	1122	1N4735A	561	1N4944	1104	1N5320	1122
1N3613	1104	1N3982	1144	1N4249	1114	1N4548	1122	1N4739	562	1N4944GP	1104	1N5324	561
1N3613GP	1104	1N3991	1123	1N4249GP	1114	1N4565	561	1N4739A	562	1N4946	1104	1N5324A	561
1N3614	1114	1N4001	1101	1N4250	1114	1N4565A	561	1N4742	563	1N4946GP	1104	1N5391	1141
1N3614GP	1114	1N4001A	1101	1N4251	1114	1N4566	561	1N4742A	563	1N4949	1122	1N5391GP	1114
1N3625	1122	1N4001G	1101	1N4297	562	1N4566A	561	1N4744	564	1N4950	1122	1N5392	1114

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1N5392G2	1143	1N5736B	563	1NE11-B	1114	1R5BZ61	1114	1S023	1144	1S98	1114	1S187	1123
1N5392GP	1114	1N5738	563	1NE11-C	1114	1R5BZ61-A	1114	1S030	1141	1S98R	1114	1S187S	1123
1N5393	1143	1N5738B	563	1NE11-D	1114	1R5BZ61-B	1114	1S031	1143	1S99	1114	1S-188	1123
1N5393GP	1114	1N5740	564	1NE11-K	1114	1R5BZ61-C	1114	1S032	1143	1S99A	1104	1S188	1123
1N5394	1144	1N5740B	564	1NE11-L	1114	1R5BZ61-D	1114	1S034	1144	1S99R	1104	1S188(AM)	1123
1N5394GP	1114	1N5767	1122	1NE11-Y	1114	1R5BZ61-K	1114	1S054	1104	1S100	1104	1S188-FM	1123
1N5395	1144	1N5802	1122	1NE11A	1114	1R5BZ61-L	1114	1S058	1114	1S100R	1104	1S188A	1123
1N5395GP	1114	1N5803	1122	1NE11B	1114	1R5BZ61-OR	1114	1S1Z09	1104	1S101	1104	1S188AM	1123
1N5396GP	1114	1N5804	1122	1NE11C	1114	1R5BZ61-Y	1114	1S11	1123	1S101R	1104	1S188AR	1123
1N5397GP	1114	1N5805	1122	1NE11D	1114	1R5DZ61	1143	1S12	1123	1S102	1104	1S188F	1123
1N5398GP	1114	1N5806	1122	1NE11K	1114	1R5DZ61-A	1114	1S13	1123	1S102R	1104	1S188FM	1123
1N5399GP	1114	1N5807	1122	1NE11L	1114	1R5DZ61-B	1114	1S14	1123	1S103	1104	1S188FM-1	1123
1N5400	1141	1N5808	1122	1NE11R	1114	1R5DZ61-C	1114	1S15	1123	1S103R	1104	1S188FM1	1123
1N5401	1143	1N5809	1122	1NE11Y	1114	1R5DZ61-D	1114	1S16	1123	1S104	1104	1S188FM1A	1123
1N5402	1143	1N5810	1122	1NF11	1114	1R5DZ61-L	1114	1S17	1123	1S104R	1104	1S188FM-2	1123
1N5403	1144	1N5811	1122	1NH61	1114	1R5DZ61-OR	1114	1S17D1	1123	1S105	1104	1S188FM2	1123
1N5404	1144	1N5817	1101	1NJ27	1114	1R5DZ61-Y	1114	1S18	1123	1S105R	1104	1S188FMA	1123
1N5413	1122	1N5818	1101	1NJ33233	1123	1R5G	1114	1S19	1123	1S106	1104	1S188FMI	1123
1N5414	1122	1N5819	1101	1NJ60284	1123	1R5GZ61	1114	1S20	1123	1S106A	1104	1S188MPX	1123
1N5415	1101	1N5820	1114	1NJ61224	1123	1R5GZ61-A	1114	1S32	1123	1S106R	1104	1S188P	1123
1N5420	1114	1N5822	1114	1NJ61433	1122	1R5GZ61-B	1114	1S33	1123	1S107	1114	1S188S	1123
1N5426	1122	1N5846	565	1NJ61675	1123	1R5GZ61-C	1114	1S34	1123	1S107R	1114	1S188TV	1123
1N5522	565	1N5846A	565	1NJ61676	1104	1R5GZ61-D	1114	1S34(TV)	1123	1S108	1114	1S188TV(MP)	1123
1N5522A	565	1N5846B	565	1NJ61677	1122	1R5GZ61-K	1114	1S34S	1123	1S108R	1114	1S189	1123
1N5522B	565	1N5847	565	1NJ61725	1122	1R5GZ61-L	1114	1S35	1123	1S109	1114	1S189FM	1123
1N5523	565	1N5847A	565	1NJ70973	1123	1R5GZ61-OR	1114	1S36	1104	1S109R	1114	1S189FM(MP)	1123
1N5523A	565	1N5847B	565	1NJ70980	1122	1R5GZ61-Y	1114	1S37	561	1S110	1104	1S190	565
1N5523B	565	1N5850	561	1NJ70989	1123	1R5GZ61FA-1	1114	1S38	1122	1S110A	1104	1S194	562
1N5525	561	1N5850A	561	1NJ71126	1101	1R5GZ61FA1	1114	1S39	1114	1S111	1104	1S197	563
1N5525A	561	1N5850B	561	1NJ71185	1123	1R5H	1104	1S40	1143	1S112	1104	1S200	1123
1N5525B	561	1N5854	562	1NJ71186	1101	1R5JZ61-A	1114	1S42	1144	1S113	1104	1S204	1104
1N5529	562	1N5854A	562	1NJ71224	1122	1R5JZ61-B	1114	1S43	1144	1S113A	1104	1S205	1104
1N5529A	562	1N5854B	562	1NZ61	1114	1R5JZ61-C	1114	1S44	1104	1S114	1104	1S206	1104
1N5529B	562	1N5855	562	1NZ61-A	1114	1R5JZ61-D	1114	1S47	1104	1S115	1104	1S207	1104
1N5532	563	1N5855A	562	1NZ61-B	1114	1R5JZ61-K	1114	1S50	1123	1S116	1104	1S208	1104
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1N5532B	563	1N5858	563	1NZ61-D	1114	1R5JZ61-OR	1114	1S55	562	1S118	1104	1S210	1114
1N5532C	563	1N5858A	563	1NZ61-K	1114	1R5JZ61-V	1114	1S56	562	1S119	1104	1S210/2SJ6A	1114
1N5535	564	1N5858B	563	1NZ61-L	1114	1R5.1	565	1S58	1123	1S120	1104	1S211	1114
1N5535A	564	1N5861	564	1NZ61-OR	1114	1R9	1104	1S60	1123	1S121	1104	1S211/2SJ8A	1114
1N5535B	564	1N5861A	564	1NZ61-Y	1114	1R9D	1104	1S60(RECT)	1104	1S121(RECT)	1104	1S211A	1114
1N5550	1114	1N5861B	564	1P20-0006	2030	1R9H	1104	1S60P	1123	1S122	1104	1S212	562
1N5551	1114	1N5898	1141	1P20-0029	2016	1R9I	1104	1S61	1104	1S123	1104	1S213	562
1N5552	1114	1N5899	1143	1P20-0032	2009	1R9J	1104	1S62	1104	1S124	1104	1S214	562
1N5562	562	1N5900	1143	1P20-0034	2016	1R9L	1104	1S63	1104	1S125	1104	1S217	562
1N5562A	562	1N5901	1144	1P20-0036	2020	1R9P	1104	1S64	1104	1S126	1104	1S218	1122
1N5563B	562	1N5992	565	1P20-0037	2016	1R9U	1104	1S65	1104	1S127	1123	1S224	562
1N5565	563	1N5992A	565	1P20-0041	2009	1R9.1A	562	1S66	1104	1S128	1123	1S227	563
1N5565A	563	1N5992B	565	1P20-0046	2023	1R9.1B	562	1S71	1104	1S128FM	1123	1S230	564
1N5565B	563	1N5993	565	1P20-0060	1123	1R10D3K	1122	1S72	1123	1S129	1123	1S268AA,T	1104
1N5567	564	1N5993A	565	1P20-0061	1122	1R12	563	1S73	1123	1S130	1122	1S268T	1104
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1N5567B	564	1N5995	561	1P20-0086	565	1R12B	563	1S74	1123	1S132	1122	1S304	562
1N5605	1122	1N5995A	561	1P20-0110	2016	1R15	564	1S75	1123	1S133	562	1S306	1122
1N5606	1122	1N5995B	561	1P20-0120	1104	1R15A	564	1S77	1123	1S134	565	1S306M	1122
1N5607	1122	1N5999	562	1P20-0122	2009	1R15B	564	1S77H	1123	1S136(RECT)	1104	1S307	1122
1N5608	1122	1N5999A	562	1P20-0159	2023	1R81	1104	1S78	1123	1S136Q	1103	1S309	1104
1N5609	1122	1N5999B	562	1P20-0213	2023	1R90	1104	1S78H	1123	1S138	562	1S310	1104
1N5610	1122	1N6002	563	1P20-0214	1617	1R96	1114	1S79	1123	1S138(RECT)	1114	1S310H	1104
1N5614	1104	1N6002A	563	1P60F	1123	1R106B1	1067	1S79H	1123	1S138(ZENER)	562	1S311H	1104
1N5614GP	1104	1N6002B	563	1P100	1067	1R106B1-C	1067	1S80	1123	1S139	562	1S311N	1104
1N5615	1104	1N6004	564	1P101	1067	1R106B2	1067	1S81	1104	1S141	563	1S312	1104
1N5615GP	1104	1N6004A	564	1P102	1067	1R106B3	1067	1S82	1123	1S142	564	1S312A	1104
1N5616	1104	1N6004B	564	1P103	1067	1R106B4	1067	1S83	1104	1S144	1122	1S312H	1104
1N5616GP	1104	1N6083	565	1P541	1123	1R106B41	1067	1S84	1122	1S147	1104	1S313	1104
1N5617	1104	1N6083A	565	1P542	1123	1R106D1	1020	1S84H	1104	1S148	1104	1S313H	1104
1N5617GP	1104	1N6083B	565	1P643	1141	1R106D2	1020	1S85V	1104	1S149	1104	1S314	1104
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1N5679	1104	1N6086A	561	1R0	1122	1RC5	1067	1S90R	1122	1S180/5GB	1104	1S315H	1104
1N5680	1104	1N6086B	561	1R01	1104	1RC10	1067	1S91	1104	1S180-M	1104	1S316	1114
1N5711	1122	1N6090	562	1R0E	1114	1RC20	1067	1S91R	1104	1S180B	1122	1S317	1114
1N5713	1122	1N6090A	562	1R0F	1114	1RC30	1020	1S92	1104	1S181	1122	1S318	1123
1N5719	1122	1N6090B	562	1R0H	1104	1RC40	1020	1S92R	1104	1S181-M	1104	1S319	1123
1N5720	1122	1N33974	562	1R1D	1104	1RE10	1104	1S93	1104	1S181FA	1122	1S320	565
1N5721	1122	1N36001	1122	1R1K	1104	1ROE	1122	1S93/SGJ	1104	1S182	1122	1S322	1122
1N5726	1122	1N70980	1122	1R2	1122	1ROF	1104	1S93R	1104	1S182-M	1104	1S323	1123
1N5727	1122	1N601000-17	1123	1R2A	1104	1ROH	1104	1S94	1104	1S183	1104	1S324	1122
1N5728	565	1NA4	1123	1R2D	1104	1R-TR24	2016	1S94R	1104	1S183-M	1104	1S325	1122
1N5728B	565	1NA4G	1123	1R2E	1104	1R-TR25	2016	1S95	1104	1S184	1122	1S326	1122
1N5729	565	1NAG1	1123	1R3A	1122	1RTR51	2016	1S95R	1104	1S185	1123	1S327	1104
1N5729B	565	1NC61684	1104	1R3D	1104	1S005	1104	1S96	1114	1S186	1123	1S328	1104
1N5731	561	1NE11	1114	1R3G	1104	1S016	1104	1S96R	1114	1S186(FM)	1123	1S329	1114
1N5731B	561	1NE11-OR	1114	1R3J	1104	1S020	1143	1S97	1114	1S186FM	1123	1S330	565
1N5735B	562	1NE11-A	1114	1R5B	1104	1S021	1143	1S97R	1114	1S186G	1104	1S330A	565

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1SS236	1122 N1
1SS240	1122
1SS243	1122
1SS250	1122
1SS251	1104
1SS252	1122
1SS253	1122
1SS254	1122
1SS267	1104
1SS270	1122
1SS270A	1122
1SS272	1122
1SS273	1122
1SV34	1122
1SV35	1122
1SZ26	561
1SZ39	561
1SZ40-12	563
1SZ40-15	564
1SZ50	561
1SZ51	561
1SZ52	561
1SZ53	561
1SZ55-C4V7	565
1SZ55-C5V1	565
1SZ55-C6V2	561
1SZ55-C9V1	562
1SZ55-C12	563
1SZ55-C15	564
1SZ61	561
1SZ63	563
1T2C1	1104
1T2Z1	1104
1T6.2	561
1T6.2A	561
1T6.2B	561
1T9.1	562
1T9.1A	562
1T9.1B	562
1T11.5A	563
1T12	563
1T12A	563
1T12B	563
1T15	564
1T15B	564
1T19-15B	564
1T22	1123
1T22(A)	1123
1T22A	1123
1T22AJ	1123
1T22AM	1123
1T22B	1123
1T22G	1123
1T23	1123
1T23A	1123
1T23B	1123
1T23G	1123

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1T23J	1123	1WS2	1114	1ZM5.1T20	565	2C8DM	1114 N2	2KBP04	1173	2N552	1617	2N755	2030
1T23M	1123	1WS4	1144	1ZM6.2T5	561	2C8M	1114 N2	2M214	562	2N560	2030	2N756	1617
1T23S	1123	1WS8	1114	1ZM6.2T10	561	2C10	1114	2M6219	2016	2N619	1617	2N756A	1617
1T26	1123	1WS10	1114	1ZM6.2T20	561	2C10DM	1114 N2	2MN6374	2016	2N620	1617	2N757	1617
1T26-2	1123	1X9179	1122	1ZM9.1T5	562	2C10M	1114 N2	2MW665	1123	2N621	1617	2N757A	1617
1T40	1122	1X9805	1122	1ZM9.1T10	562	2C12DM	1114 N2	2N2J324	2030	2N622	1617	2N757B	2009
1T188	1123	1X9809	1122	1ZM9.1T20	562	2C12M	1114 N2	2N117	2009	2N655A	2030	2N758	1617
1T213	1123	1Z4.7	565	1ZM12T5	563	2C16DM	1114 N2	2N118	2009	2N656	2030	2N758A	1617
1T220	2035	1Z4.7A	565	1ZM12T10	563	2C16M	1114 N2	2N118A	2009	2N656A	2030	2N758B	1617
1T229-2	1104	1Z4.7B	565	1ZM12T20	563	2C20DM	1114 N2	2N119	2009	2N656S	2030	2N759	1617
1T231	1123	1Z5.1	565	1ZM15T5	564	2C20M	1114 N2	2N120	2009	2N657	2030	2N759A	1617
1T236	1123	1Z5.1A	565	1ZM15T10	564	2CS537FC	2016	2N160	2009	2N657S	2030	2N759B	1617
1T240	1123	1Z5.1B	565	1ZM15T20	564	2CY38	2023	2N160A	2009	2N696	1617	2N760	1617
1T240A	1123	1Z5.1T5	565	1ZT12	563	2CY39	2023	2N161	2009	2N696A	2030	2N760A	1617
1T243	1122	1Z6.2	561	1ZT12B	563	2D002	2009	2N161A	2009	2N696S	2030	2N760B	1617
1T243M	562	1Z6.2A	561	1ZT15	564	2D002-41	2009	2N162	2009	2N697	2030	2N761	1617
1T261	1123	1Z6.2B	561	1ZT15B	564	2D002-168	1617	2N162A	2016	2N697A	2030	2N762	1617
1T262	1123	1Z6.2T5	561	1.000.111-00	2023	2D002-169	1617	2N163	2009	2N699	2030	2N770	1617
1T378	1104	1Z6.2T20	561	1.5B05	1114	2D002-170	2009	2N163A	2009	2N699A	2030	2N771	1617
1T501	1104	1Z9.1	562	1.5C05	1114	2D002-175	2009	2N263	2009	2N699A,B	2030	2N772	1617
1T502	1104	1Z9.1A	562	1.5E05	1141	2D010	2041	2N264	2009	2N699B	2030	2N773	1617
1T503	1104	1Z9.1B	562	1.5E1	1143	2D017-165	2023	2N332	1617	2N701	1617	2N774	1617
1T504	1104	1Z9.1C	562	1.5E2	1143	2D017-166	2023	2N332A	1617	2N702	1617	2N775	1617
1T505	1104	1Z9.1D	562	1.5E3	1114	2D017-167	2023	2N333	1617	2N703	1617	2N776	1617
1T506	1104	1Z9.1D5	562	1.5E4	1144	2D017-169	2023	2N333A	1617	2N706	1617	2N777	1617
1T507	1114	1Z9.1D10	562	1.5E7	1114	2D026	2009	2N334	1617	2N706/46	1617	2N778	1617
1T508	1114	1Z9.1D15	562	1.5E8	1114	2D026-274	2009	2N334A	1617	2N706/51	1617	2N780	1617
1T509	1114	1Z9.1T5	562	1.5E10	1114	2D027	2023	2N334B	1617	2N706/TNT	1617	2N783	1617
1T510	1114	1Z9.1T10	562	1.5J05	1141	2D031	2062	2N335	1617	2N706A	1617	2N784	1617
1T929	2009	1Z9.1T20	562	1.5J1	1143	2D033	2009	2N335A	1617	2N706A/46	1617	2N784/51	1617
1T930	2009	1Z12	563	1.5J2	1143	2D41	1067	2N335B	1617	2N706A/51	1617	2N784A	1617
1T1331	1123	1Z12A	563	1.5J3	1144	2D84A	1173	2N336	1617	2N706A/TNT	1617	2N784A/46	1617
1T2011	1104	1Z12B	563	1.5J4	1144	2DG2	1123	2N336A	1617	2N706B	1617	2N784A/51	1617
1T2012	1104	1Z12C	563	1.5J7	1114	2DG2C41	1114 N2	2N337	1617	2N706B/46	1617	2N784AA	2009
1T2013	1104	1Z12D	563	1.5J8	1114	2DG2Z41	1114 N1	2N337A	1617	2N706B/51	1617	2N789	1617
1T2014	1104	1Z12D5	563	1.5J10	1114	2D033	2009	2N338	1617	2N706C	1617	2N790	1617
1T2015	1104	1Z12D10	563	2(3395	2009	2E05	1104	2N338A	1617	2N706M-JAN	1617	2N791	1617
1T2016	1104	1Z12T5	563	2-00045-345	2009	2E1	1104	2N339	2030	2N707A	1617	2N792	1617
1T20105	1104	1Z12T10	563	2-00045-424	2009	2E2	1114	2N339A	2030	2N708	1617	2N793	1617
1TA6.2	561	1Z12T20	563	2-0A90	1123	2E2DM	1114 N1	2N339O-U29	2009	2N708/46	1617	2N834	1617
1TA6.2A	561	1Z15	564	2-5SR3	2009	2E4	1104	2N340	2030	2N708/51	1617	2N834/46	1617
1TA6.2B	561	1Z15A	564	2-D2K	1104	2E4DM	1114 N1	2N340A	2030	2N708/TNT	1617	2N834/51	1617
1TA9.1	562	1Z15B	564	2-D2L	1104	2E6	1114	2N342	2030	2N708A	1617	2N834A	1617
1TA9.1A	562	1Z15C	564	2-D2R	1104	2E6DM	1114 N1	2N342A	2030	2N709	2016	2N835	1617
1TA12	563	1Z15D	564	2-OA90	1123	2E8	1114	2N342B	2030	2N709/52	2016	2N835/46	1617
1TA12A	563	1Z15D5	564	2A21	565	2E8DM	1114 N1	2N343	2030	2N709A	2016	2N835/51	1617
1TA15	564	1Z15D10	564	2A21(ZENER)	565	2E10	1114	2N343A	2030	2N711/46	2016	2N839	1617
1TA15A	564	1Z15D20	564	2A22	565	2E10DM	1114 N1	2N385/46	2009	2N715	1617	2N840	1617
1TB06	1104	1Z15T5	564	2A22(ZENER)	565	2E12DM	1114 N1	2N422/A	2035	2N716	2009	2N841	1617
1TS05	1104	1Z15T10	564	2A30	1114	2E16DM	1114 N1	2N431	1617	2N717	1617	2N841/46	1617
1TV24237	1131	1Z15T20	564	2A50	1122	2E20DM	1114 N1	2N432	1617	2N717A	2016	2N841/KVT	1617
1TWC8H	562	1Z91.1D10	562	2A100	1114	2EM03	1114	2N433	1617	2N718	1617	2N842	1617
1TWC8L	562	1Z91.D10	562	2A119	1123	2EM05	1114	2N470	1617	2N718A	1617	2N843	1617
1TWC8M	562	1ZB12	563	2A200	1114	2EM015	1114	2N471	1617	2N721	2023	2N844	1617
1U285F	1617	1ZB12B	563	2A400	1114	2EM6	1114	2N471A	1617	2N721A	2023	2N845	2030
1V3074A20	1104	1ZB15	564	2A500	1114	2EM8	1114	2N472	1617	2N721AB	2023	2N849	2016
1V3074A21	1104	1ZB15B	564	2A600	1114	2EM10	1114	2N472A	1617	2N722	2023	2N850	2016
1V9002	1123	1ZC5.1	565	2A800	1114	2F05	1141	2N473	1617	2N722A	2023	2N851	2016
1V68611A47	2023	1ZC6.2	561	2A1000	1114	2F2CN1	1114	2N474	1617	2N722AB	2023	2N852	2016
1V68611A47A	2023	1ZC9.1	562	2AA112	1123	2F2CN5	1114	2N474A	1617	2N728	1617	2N858	2023
1V410	1104	1ZC9.1T5	562	2AA113	1123	2F4	1104	2N475	1617	2N729	1617	2N858C	2023
1W1706	2035	1ZC9.1T10	562	2AA116	1123	2F5CN1	1114	2N475A	1617	2N730	2030	2N859	2023
1W9640	2023	1ZC12	563	2AA119	1123	2F6	1114	2N476	1617	2N731	2030	2N859D	2023
1W9640A	2023	1ZC12T5	563	2AA119(MP)	1123	2F8	1114	2N476A	2016	2N734	2030	2N860	2023
1W9728	2023	1ZC12T10	563	2AG	2016	2F10	1114	2N477	1617	2N734A	2030	2N860A	2023
1W9728A	2023	1ZC12T20	563	2AH	2016	2FB050	1171	2N478	1617	2N735	2030	2N861	2023
1W9782	2023	1ZC15	564	2AM-1	1067	2FB100	1171	2N479	1617	2N735A	2030	2N861A	2023
1W9782A	2023	1ZC15T5	564	2B2DM	1171	2G8	1104	2N479A	1617	2N736	2030	2N862	2023
1W9787	1617	1ZC15T10	564	2B2M	1171	2G13	1104	2N480	1617	2N736A	2030	2N862A	2023
1W9810	2023	1ZD12	563	2B2MS	1171	2G805	1104	2N480A	1617	2N736B	2030	2N863	2023
1W9810A	2023	1ZF5.1T5	565	2B6DM	1173	2GA	1104	2N480B	2030	2N739	2030	2N863A	2023
1W9810S	2023	1ZF5.1T10	565	2B6M	1173	2GG2C41	1114 N2	2N497	2030	2N739A	2030	2N864	2023
1W9810SA	2023	1ZF5.1T20	565	2B6MS	1173	2GG2Z41	1114 N1	2N497A	2030	2N740	2030	2N866	1617
1W11700	2023	1ZF9.1T5	562	2B8DM	1173	2H1254	2023	2N498	2030	2N740A	2030	2N867	1617
1W11700A	2023	1ZF9.1T10	562	2B8M	1173	2H1255	2023	2N541	1617	2N742	1617	2N870	2030
1W11702	2023	1ZF9.1T20	562	2B8MS	1173	2H1258	2023	2N541A	2016	2N742A	1617	2N871	2030
1W11702A	2023	1ZF12T5	563	2BG2C41	1114 N2	2H1259	2023	2N542	2030	2N743	1617	2N876	1067
1W11706	2035	1ZF12T10	563	2BG2Z41	1114 N1	2HR3J	1114	2N542A	1617	2N744	1617	2N877	1067
1W11708-1	1617	1ZF12T20	563	2C05	1114	2HR3M	1114	2N543	1617	2N745	1617	2N878	1067
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1W11711	2023	1ZF15T10	564	2C2M	1114 N2	2J8138	1104	2N545	2030	2N747	1617	2N880	1067
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1WB-5A	565	1ZM4.7T5	565	2C4M	1114 N2	2JG2Z41	1114 N1	2N547	2030	2N749	1617	2N885	1067
1WB-9D	562	1ZM4.7T10	565	2C6	1114	2K02	1114	2N548	1617	2N752	2030	2N885A	1067
1WB-15D	564	1ZM4.7T20	565	2C6DM	1114 N2	2K19H	2035	2N549	2030	2N753	1617	2N888A	1067
1WM6	1104	1ZM5.1T5	565	2C6M	1114 N2	2KBP005	1171	2N550	1617	2N753/46	2009	2N902	2016
1WS1	1114	1ZM5.1T10	565	2C8	1114	2KBP01	1171	2N551	1617	2N754	1617	2N903	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2N912	2030	2N1028A	2023	2N1276	1617	2N1676	2023	2N2005	2023	2N2242	1617	2N2388	2009
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2N927	2023	2N1131A/51	2023	2N1474A	2023	2N1839A	2030	2N2165	2023	2N2297S	2030	2N2476	1617
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2SA550A	2023

DEVICE	276-
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2SA562-TMO	2023
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2SA562-YEL	2023
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2SA562YTM	2023
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2SA564-S	2023
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2SA565(D)	[illegible]
2SA565(D,C)	[illegible]
2SA565A	[illegible]

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2SA565AB	2023	2SA570M	2023	2SA609K	2023	2SA642D	2023	2SA673AKD	2023	2SA704	2023	2SA725	2023
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2SA565BA	2023	2SA570R	2023	2SA609M	2023	2SA642F	2023	2SA673AS(C)	2023	2SA704B	2023	2SA726	2023
2SA565C	2023	2SA570X	2023	2SA609OR	2023	2SA642G	2023	2SA673B	2023	2SA704C	2023	2SA726Y	2023
2SA565D	2023	2SA570Y	2023	2SA609R	2023	2SA642GN	2023	2SA673C	2023	2SA704D	2023	2SA728	2023
2SA565E	2023	2SA572	2023	2SA609Y	2023	2SA642H	2023	2SA673C2	2023	2SA704E	2023	2SA728A	2023
2SA565F	2023	2SA572Y	2023	2SA610	2023	2SA642J	2023	2SA673D	2023	2SA704F	2023	2SA733	2023
2SA565G	2023	2SA573	2023	2SA611	2023	2SA642K	2023	2SA673E	2023	2SA704G	2023	2SA733(C)-T	2023
2SA565GN	2023	2SA575	2023	2SA620	2023	2SA642L	2023	2SA673F	2023	2SA704GN	2023	2SA733(E)	2023
2SA565H	2023	2SA578	2023	2SA621	2023	2SA642M	2023	2SA673G	2023	2SA704H	2023	2SA733(K)	2023
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2SA565K	2023	2SA603	2023	2SA628(EF)	2023	2SA642R	2023	2SA673H	2023	2SA704K	2023	2SA733(Q)	2023
2SA565L	2023	2SA603A	2023	2SA628(F)	2023	2SA642S	2023	2SA673J	2023	2SA704L	2023	2SA733-P	2023
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2SA565OR	2023	2SA603C	2023	2SA628-O	2023	2SA642W	2023	2SA673L	2023	2SA704OR	2023	2SA733A	2023
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2SA565X	2023	2SA603E	2023	2SA628A	2023	2SA642Y	2023	2SA673OR	2023	2SA704X	2023	2SA733AP	2023
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2SA567L	2023	2SA608(D)	2023	2SA628G	2023	2SA659L	2023	2SA677G	2023	2SA705M	2023	2SA733TP	2023
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2SA568K	2023	2SA608D(F)	2023	2SA629G	2023	2SA666C	2023	2SA678B	2023	2SA719-S	2023	2SA767	2023
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2SA569B	2023	2SA608K(F)	2023	2SA629X	2023	2SA666S	2023	2SA678K	2023	2SA720	2023	2SA786-Q	2023
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2SA569K	2023	2SA608NP(G)	2023	2SA640M	2023	2SA672B	2023	2SA679-Y	2043	2SA720C	2023	2SA811A	2023
2SA569L	2023	2SA608NP-T	2023	2SA641	2023	2SA672C	2023	2SA680	2043	2SA720D	2023	2SA811C5	2023
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2SA569R	2023	2SA608R	2023	2SA641BL	2023	2SA673(C)	2023	2SA685	2023	2SA720Q	2023	2SA811C8	2023
2SA569X	2023	2SA608SP	2023	2SA641C	2023	2SA673(D)	2023	2SA693	2023	2SA720QR	2023	2SA812	2023
2SA569Y	2023	2SA608SP(F)	2023	2SA641D	2023	2SA673-C	2023	2SA693C	2023	2SA720R	2023	2SA812M3	2023
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2SA570B	2023	2SA608Y	2023	2SA641K	2023	2SA673-OR	2023	2SA697	2023	2SA720Y	2023	2SA812M6	2023
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2SA570F	2023	2SA609C	2023	2SA641OR	2023	2SA673A-C	2023	2SA700Y	2027	2SA721S	2023	2SA825R	2023
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2SA570H	2023	2SA609F	2023	2SA642	2023	2SA673AK	2023	2SA701F0	2023	2SA722	2023	2SA826P	2023
2SA570J	2023	2SA609G	2023	2SA642A	2023	2SA673AKA	2023	2SA701FJ	2023	2SA722S	2023	2SA826Q	2023
2SA570K	2023	2SA609GN	2023	2SA642B	2023	2SA673AKB	2023	2SA701FO	2023	2SA723	2023	2SA826R	2023
2SA570L	2023	2SA609J	2023	2SA642C	2023	2SA673AKC	2023	2SA702	2023	2SA723R	2023	2SA826S	2023

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2SA828A	2023	2SA937M	2023	2SA1016G	2023	2SA1305	2027	2SB611	2043	2SB726S	2023	2SC16R	1617
2SA836	2023	2SA937M(Q)	2023	2SA1016K	2023	2SA1305Y	2027	2SB611A	2043	2SB726T	2023	2SC16X	1617
2SA836(D)	2023	2SA937M(R)	2023	2SA1023	2023	2SA1318	2023	2SB640	2023	2SB744	2023	2SC16Y	1617
2SA836(E)	2023	2SA937M(S)	2023	2SA1023P	2023	2SA1318S	2023	2SB641	2023	2SB744A	2023	2SC17	1617
2SA836C	2023	2SA937MQRS	2023	2SA1023Q	2023	2SA4950	2023	2SB641(P)	2023	2SB744Q	2023	2SC17A	1617
2SA836D	2023	2SA937MR	2023	2SA1025D	2023	2SA4950R	2023	2SB641(Q)	2023	2SB744R	2023	2SC17B	1617
2SA836E	2023	2SA937MRS	2023	2SA1025E	2023	2SA5610	2023	2SB641(R)	2023	2SB744S	2023	2SC17C	1617
2SA836F	2023	2SA937MS	2023	2SA1026	2023	2SA-NJ-101	2023	2SB641(S)	2023	2SB745	2023	2SC17D	1617
2SA838	2023	2SA937Q	2023	2SA1027	2023	2SANJ101	2023	2SB641(T)	2023	2SB745A	2023	2SC17E	1617
2SA838B	2023	2SA937R	2023	2SA1027(R)	2023	2SB434	2027	2SB641-Q	2023	2SB745AS	2023	2SC17F	1617
2SA838C	2023	2SA937RZ	2023	2SA1027R	2023	2SB434(O)	2027	2SB641-QR	2023	2SB745S	2023	2SC17G	1617
2SA841	2023	2SA941	2023	2SA1028	2043	2SB434-O	2027	2SB641-R	2023	2SB745T	2023	2SC17GN	1617
2SA841-BL	2023	2SA942	2023	2SA1029	2023	2SB434-ORG	2027	2SB641-S	2023	2SB774	2023	2SC17H	1617
2SA841-GR	2023	2SA950	2023	2SA1029B	2023	2SB434-R	2027	2SB641P	2023	2SB774(Q)	2023	2SC17J	1617
2SA842	2023	2SA950(O)	2023	2SA1029C	2023	2SB434-RED	2027	2SB641Q	2023	2SB774(R)	2023	2SC17K	1617
2SA842-BL	2023	2SA950(Y)	2023	2SA1029D	2023	2SB434-Y	2027	2SB641QR	2023	2SB774(S)	2023	2SC17L	1617
2SA842-GR	2023	2SA950-0	2023	2SA1030B	2023	2SB434-YEL	2027	2SB641QRS	2023	2SB774Q	2023	2SC17M	1617
2SA844	2023	2SA950-O	2023	2SA1030C	2023	2SB434G-O	2027	2SB641R	2023	2SB774R	2023	2SC17OR	1617
2SA844(D)	2023	2SA950-Y	2023	2SA1031D	2023	2SB434G-R	2027	2SB641RS	2023	2SB774S	2023	2SC17R	1617
2SA844(E)	2023	2SA950FA	2023	2SA1040	2023	2SB434G-Y	2027	2SB641S	2023	2SB774T	2023	2SC17X	1617
2SA844C	2023	2SA950Y	2023	2SA1042	2043	2SB434R	2027	2SB641T	2023	2SB808	2023	2SC17Y	1617
2SA844CD	2023	2SA952	2023	2SA1045	2043	2SB435	2027	2SB642	2023	2SB808F	2023	2SC18	2009
2SA844D	2023	2SA952(L)	2023	2SA1046	2043	2SB435-0	2027	2SB642(Q)	2023	2SB808G1	2023	2SC18A	1617
2SA844E	2023	2SA952(M)	2023	2SA1048	2023	2SB435-O	2027	2SB642(R)	2023	2SB856B	2027	2SC18B	1617
2SA844F	2023	2SA952K	2023	2SA1048-GR	2023	2SB435-ORG	2027	2SB642(S)	2023	2SB856C	2027	2SC18C	1617
2SA844O	2023	2SA952L	2023	2SA1048-O	2023	2SB435-R	2027	2SB642(T)	2023	2SB894(Q)	2023	2SC18D	1617
2SA850	2023	2SA952LK	2023	2SA1048GR	2023	2SB435-RED	2027	2SB642-O	2023	2SB894(R)	2023	2SC18E	1617
2SA-854	2023	2SA952LT	2023	2SA1048O	2023	2SB435-Y	2027	2SB642-P	2023	2SB894(S)	2023	2SC18F	1617
2SA854	2023	2SA952M	2023	2SA1048Y	2023	2SB435-YEL	2027	2SB642-PQR	2023	2SB2821	2023	2SC18G	1617
2SA854(Q)	2023	2SA952ML2	2023	2SA1049	2023	2SB435G-O	2027	2SB642-Q	2023	2SB-C731	1104	2SC18GN	1617
2SA854-Q	2023	2SA953	2023	2SA1050	2023	2SB435G-R	2027	2SB642-QR	2023	2SB-S131	1114	2SC18H	1617
2SA854G	2023	2SA953(K)	2023	2SA1081D	2023	2SB435G-Y	2027	2SB642-R	2023	2SB-S851	1171	2SC18J	1617
2SA-854Q	2023	2SA953(L)	2023	2SA1081E	2023	2SB435O	2027	2SB642-S	2023	2SC12	2030	2SC18K	1617
2SA854Q	2023	2SA954	2023	2SA1082D	2023	2SB435R	2027	2SB642P	2023	2SC12A	2030	2SC18L	1617
2SA854QE	2023	2SA970	2023	2SA1082E	2023	2SB435RY	2027	2SB642PQR	2023	2SC12B	2030	2SC18M	1617
2SA854QV	2023	2SA970NEW-BL	2023	2SA1083D	2023	2SB435Y	2027	2SB642Q	2023	2SC12C	2030	2SC18OR	1617
2SA854QY	2023	2SA973	2023	2SA1083E	2023	2SB507	2027	2SB642QR	2023	2SC12D	2030	2SC18R	1617
2SA854R	2023	2SA978	2023	2SA1090	2023	2SB507E	2027	2SB642QRS	2023	2SC12E	2030	2SC18X	1617
2SA855	2023	2SA980	2043	2SA1092	2023	2SB508	2027	2SB642R	2023	2SC12F	2030	2SC19	2030
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2SA859	2023	2SA984	2023	2SA1100F	2023	2SB511-1	2027	2SB642S	2023	2SC12H	2030	2SC19C	2030
2SA866	2023	2SA984(E)	2023	2SA1100L	2023	2SB511C	2027	2SB643	2023	2SC12J	2030	2SC19D	2030
2SA866V	2023	2SA984(F)	2023	2SA1115	2023	2SB511D	2027	2SB643(Q)	2023	2SC12K	2030	2SC19E	2030
2SA866VG	2023	2SA984E	2023	2SA1115(E)	2023	2SB511E	2027	2SB643(R)	2023	2SC12L	2030	2SC19F	2030
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2SA869	2023	2SA984K(E)	2023	2SA1115(G)	2023	2SB512-0	2027	2SB643-O	2023	2SC12OR	2030	2SC19GN	2030
2SA870	2023	2SA984K(F)	2023	2SA1115-E	2023	2SB512-O	2027	2SB643-P	2023	2SC12R	2030	2SC19H	2030
2SA876HA	2023	2SA984KE	2023	2SA1115-EF	2023	2SB512A	2027	2SB643-PQR	2023	2SC12X	2030	2SC19J	2030
2SA876HB	2023	2SA987	2023	2SA1115-F	2023	2SB512P	2027	2SB643-Q	2023	2SC12Y	2030	2SC19K	2030
2SA876HC	2023	2SA990	2023	2SA1115E	2023	2SB513	2027	2SB643-R	2023	2SC15	1617	2SC19L	2030
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2SA929	2023	2SA1012	2027	2SA1175	2023	2SB520-2	2043	2SB644	2023	2SC15E	1617	2SC20C	2030
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2SA930	2023	2SA-1015	2023	2SA1175(H)	2023	2SB529	2027	2SB644(R)	2023	2SC15GN	1617	2SC20F	2030
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2SA933(Q)	2023	2SA1015(G)	2023	2SA1175E	2023	2SB531	2043	2SB644-Q	2023	2SC15J	1617	2SC20GN	2030
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2SA933QV	2023	2SA1015-OFA	2023	2SA1198(S)	2023	2SB555-R	2043	2SB698(G)	2023	2SC16A	1617	2SC20Y	2030
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2SA933SP	2023	2SA1015G	2023	2SA1246(R)	2023	2SB557	2043	2SB709	2023	2SC16F	1617	2SC21D	2041
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2SA 937	2023	2SA1015Y	2023	2SA1246R	2023	2SB558-O	2043	2SB726	2023	2SC16J	1617	2SC21GN	2041
2SA937	2023	2SA1016	2023	2SA1246S	2023	2SB558-R	2043	2SB726(R)	2023	2SC16K	1617	2SC21H	2041
2SA937(R)	2023	2SA1016(F)	2023	2SA1246T	2023	2SB598	2023	2SB726(S)	2023	2SC16L	1617	2SC21J	2041
2SA937-Q	2023	2SA1016(G)	2023	2SA1246U	2023	2SB598E	2023	2SB726(T)	2023	2SC16M	1617	2SC21K	2041
2SA937LN	2023	2SA1016F	2023	2SA1264T	2023	2SB598F	2023	2SB726R	2023	2SC16OR	1617	2SC21L	2041

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2SC21M	2041	2SC27M	1617	2SC32J	2030	2SC40GN	2016	2SC51E	2030	2SC56F	2016	2SC64F	2030
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2SC26F	1617	2SC31D	2030	2SC39B	2016	2SC48X	2030	2SC55	1617	2SC62Y	1617	2SC69X	2030
2SC26G	1617	2SC31E	2030	2SC39C	2016	2SC48Y	2030	2SC55A	1617	2SC63	2016	2SC69Y	2030
2SC26GN	1617	2SC31F	2030	2SC39D	2016	2SC49	2030	2SC55B	1617	2SC63A	2016	2SC74	1617
2SC26H	1617	2SC31G	2030	2SC39E	2016	2SC49A	2030	2SC55C	1617	2SC63B	2016	2SC74-GR	1617
2SC26J	1617	2SC31GN	2030	2SC39F	2016	2SC49B	2030	2SC55D	1617	2SC63D	2016	2SC74-O	1617
2SC26K	1617	2SC31H	2030	2SC39G	2016	2SC49C	2030	2SC55E	1617	2SC63E	2016	2SC74-R	1617
2SC26L	1617	2SC31J	2030	2SC39GN	2016	2SC49D	2030	2SC55F	1617	2SC63F	2016	2SC74-Y	1617
2SC26M	1617	2SC31K	2030	2SC39H	2016	2SC49E	2030	2SC55G	1617	2SC63G	2016	2SC74A	1617
2SC26OR	1617	2SC31L	2030	2SC39J	2016	2SC49F	2030	2SC55GN	1617	2SC63GN	2016	2SC74B	1617
2SC26R	1617	2SC31M	2030	2SC39K	2016	2SC49G	2030	2SC55H	1617	2SC63H	2016	2SC74C	1617
2SC26X	1617	2SC31OR	2030	2SC39L	2016	2SC49GN	2030	2SC55J	1617	2SC63J	2016	2SC74D	1617
2SC26Y	1617	2SC31R	2030	2SC39M	2016	2SC49H	2030	2SC55K	1617	2SC63K	2016	2SC74E	1617
2SC27	1617	2SC31X	2030	2SC39OR	2016	2SC49J	2030	2SC55L	1617	2SC63L	2016	2SC74F	1617
2SC27A	1617	2SC31Y	2030	2SC39R	2016	2SC49K	2030	2SC55M	1617	2SC63M	2016	2SC74G	1617
2SC27B	1617	2SC32	2030	2SC39X	2016	2SC49L	2030	2SC55OR	1617	2SC63OR	2016	2SC74GN	1617
2SC27D	1617	2SC32A	2030	2SC39Y	2016	2SC49M	2030	2SC55R	1617	2SC63R	2016	2SC74H	1617
2SC27E	1617	2SC32B	2030	2SC40	2016	2SC49OR	2030	2SC55X	1617	2SC63X	2016	2SC74J	1617
2SC27F	1617	2SC32C	2030	2SC40A	2016	2SC49X	2030	2SC55Y	1617	2SC63Y	2016	2SC74K	1617
2SC27G	1617	2SC32D	2030	2SC40B	2016	2SC49Y	2030	2SC56	2016	2SC64	2030	2SC74L	1617
2SC27GN	1617	2SC32E	2030	2SC40C	2016	2SC51	2030	2SC56A	2016	2SC64A	2030	2SC74M	1617
2SC27H	1617	2SC32F	2030	2SC40D	2016	2SC51A	2030	2SC56B	2016	2SC64B	2030	2SC74R	1617
2SC27J	1617	2SC32G	2030	2SC40E	2016	2SC51B	2030	2SC56C	2016	2SC64C	2030	2SC74X	1617
2SC27K	1617	2SC32GN	2030	2SC40F	2016	2SC51C	2030	2SC56D	2016	2SC64D	2030	2SC74Y	1617
2SC27L	1617	2SC32H	2030	2SC40G	2016	2SC51D	2030	2SC56E	2016	2SC64E	2030	2SC79	2058

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC79A	2058	2SC95GN	2030	2SC103E	1617	2SC110L	1617	2SC115E	2030	2SC120B	1617	2SC127B	1617
2SC79B	2058	2SC95H	2030	2SC103F	1617	2SC110M	1617	2SC115F	2030	2SC120C	1617	2SC127C	1617
2SC79C	2058	2SC95J	2030	2SC103G	1617	2SC110OR	1617	2SC115G	2030	2SC120D	1617	2SC127D	1617
2SC79D	2058	2SC95K	2030	2SC103GN	1617	2SC110R	1617	2SC115GN	2030	2SC120E	1617	2SC127E	1617
2SC79E	2058	2SC95L	2030	2SC103H	1617	2SC110X	1617	2SC115H	2030	2SC120F	1617	2SC127F	1617
2SC79F	2058	2SC95M	2030	2SC103J	1617	2SC110Y	1617	2SC115J	2030	2SC120G	1617	2SC127G	1617
2SC79G	2058	2SC95OR	2030	2SC103K	1617	2SC111	1617	2SC115K	2030	2SC120GN	1617	2SC127GN	1617
2SC79GN	2058	2SC95R	2030	2SC103L	1617	2SC111A	1617	2SC115L	2030	2SC120H	1617	2SC127H	1617
2SC79H	2058	2SC95X	2030	2SC103M	1617	2SC111B	1617	2SC115M	2030	2SC120J	1617	2SC127J	1617
2SC79J	2058	2SC95Y	2030	2SC103X	1617	2SC111C	1617	2SC115OR	2030	2SC120K	1617	2SC127K	1617
2SC79K	2058	2SC96	2009	2SC103Y	1617	2SC111D	1617	2SC115R	2030	2SC120M	1617	2SC127L	1617
2SC79L	2058	2SC97	2030	2SC104	1617	2SC111E	1617	2SC115X	2030	2SC120OR	1617	2SC127M	1617
2SC79M	2058	2SC97A	2030	2SC104A	1617	2SC111F	1617	2SC115Y	2030	2SC120Y	1617	2SC127OR	1617
2SC79OR	2058	2SC97B	2030	2SC104B	1617	2SC111G	1617	2SC116	2009	2SC121	2030	2SC127R	1617
2SC79R	2058	2SC97C	2030	2SC104C	1617	2SC111GN	1617	2SC116-OR	2009	2SC121A	2030	2SC127X	1617
2SC79X	2058	2SC97D	2030	2SC104D	1617	2SC111H	1617	2SC116A	2009	2SC121B	2030	2SC127Y	1617
2SC79Y	2058	2SC97E	2030	2SC104E	1617	2SC111J	1617	2SC116B	2009	2SC121C	2030	2SC130	2030
2SC80	2016	2SC97F	2030	2SC104F	1617	2SC111K	1617	2SC116C	2009	2SC121D	2030	2SC130A	2030
2SC80A	2016	2SC97G	2030	2SC104G	1617	2SC111L	1617	2SC116D	2009	2SC121E	2030	2SC130B	2030
2SC80B	2016	2SC97GN	2030	2SC104GN	1617	2SC111M	1617	2SC116E	2009	2SC121F	2030	2SC130C	2030
2SC80C	2016	2SC97H	2030	2SC104H	1617	2SC111OR	1617	2SC116F	2009	2SC121G	2030	2SC130D	2030
2SC80D	2016	2SC97J	2030	2SC104J	1617	2SC111R	1617	2SC116G	2009	2SC121GN	2030	2SC130E	2030
2SC80E	2016	2SC97K	2030	2SC104K	1617	2SC111X	1617	2SC116GN	2009	2SC121H	2030	2SC130F	2030
2SC80F	2016	2SC97L	2030	2SC104L	1617	2SC111Y	1617	2SC116H	2009	2SC121J	2030	2SC130GN	2030
2SC80G	2016	2SC97M	2030	2SC104M	1617	2SC112	2030	2SC116J	2009	2SC121K	2030	2SC130H	2030
2SC80GN	2016	2SC97OR	2030	2SC104OR	1617	2SC112A	2030	2SC116K	2009	2SC121M	2030	2SC130J	2030
2SC80H	2016	2SC97R	2030	2SC104R	1617	2SC112B	2030	2SC116L	2009	2SC121OR	2030	2SC130K	2030
2SC80J	2016	2SC97X	2030	2SC104X	1617	2SC112C	2030	2SC116M	2009	2SC121R	2030	2SC130L	2030
2SC80K	2016	2SC97Y	2030	2SC104Y	1617	2SC112D	2030	2SC116OR	2009	2SC121X	2030	2SC130M	2030
2SC80L	2016	2SC98	1617	2SC105	1617	2SC112E	2030	2SC116R	2009	2SC121Y	2030	2SC130OR	2030
2SC80M	2016	2SC98A	1617	2SC105B	1617	2SC112F	2030	2SC116T	2009	2SC122	2030	2SC130R	2030
2SC80OR	2016	2SC98B	1617	2SC107	2020	2SC112G	2030	2SC116X	2009	2SC122A	2030	2SC130X	2030
2SC80R	2016	2SC98C	1617	2SC107G4	2020	2SC112GN	2030	2SC116Y	2009	2SC122B	2030	2SC130Y	2030
2SC80X	2016	2SC98D	1617	2SC107G5	2020	2SC112H	2030	2SC117	2030	2SC122C	2030	2SC131	1617
2SC80Y	2016	2SC98E	1617	2SC107G6	2020	2SC112J	2030	2SC117A	2030	2SC122D	2030	2SC131A	1617
2SC82	2016	2SC98F	1617	2SC108	2030	2SC112K	2030	2SC117B	2030	2SC122E	2030	2SC131B	1617
2SC82BN	2016	2SC98G	1617	2SC108A	2030	2SC112L	2030	2SC117C	2030	2SC122F	2030	2SC131C	1617
2SC82R	2016	2SC98GN	1617	2SC108A-O	2030	2SC112M	2030	2SC117D	2030	2SC122G	2030	2SC131D	1617
2SC83	2016	2SC98H	1617	2SC108A-R	2030	2SC112OR	2030	2SC117F	2030	2SC122GN	2030	2SC131E	1617
2SC87	1617	2SC98J	1617	2SC108B	2030	2SC112R	2030	2SC117G	2030	2SC122H	2030	2SC131F	1617
2SC87A	1617	2SC98K	1617	2SC108C	2030	2SC112X	2030	2SC117GN	2030	2SC122J	2030	2SC131G	1617
2SC87B	1617	2SC98L	1617	2SC108D	2030	2SC112Y	2030	2SC117H	2030	2SC122K	2030	2SC131GN	1617
2SC87C	1617	2SC98M	1617	2SC108E	2030	2SC113	2030	2SC117J	2030	2SC122L	2030	2SC131H	1617
2SC87D	1617	2SC98OR	1617	2SC108F	2030	2SC113A	2030	2SC117K	2030	2SC122M	2030	2SC131J	1617
2SC87E	1617	2SC98R	1617	2SC108G	2030	2SC113B	2030	2SC117L	2030	2SC122OR	2030	2SC131L	1617
2SC87F	1617	2SC98X	1617	2SC108GN	2030	2SC113C	2030	2SC117M	2030	2SC122R	2030	2SC131M	1617
2SC87G	1617	2SC98Y	1617	2SC108H	2030	2SC113D	2030	2SC117OR	2030	2SC122X	2030	2SC131OR	1617
2SC87GN	1617	2SC99	1617	2SC108J	2030	2SC113E	2030	2SC117R	2030	2SC122Y	2030	2SC131R	1617
2SC87H	1617	2SC99A	1617	2SC108K	2030	2SC113F	2030	2SC117X	2030	2SC123	2030	2SC131T	1617
2SC87J	1617	2SC99B	1617	2SC108L	2030	2SC113G	2030	2SC117Y	2030	2SC123A	2030	2SC131Y	1617
2SC87K	1617	2SC99C	1617	2SC108M	2030	2SC113GN	2030	2SC118	2030	2SC123B	2030	2SC132	1617
2SC87L	1617	2SC99D	1617	2SC108OR	2030	2SC113H	2030	2SC118A	2030	2SC123C	2030	2SC132A	1617
2SC87M	1617	2SC99E	1617	2SC108R	2030	2SC113J	2030	2SC118B	2030	2SC123D	2030	2SC132B	1617
2SC87OR	1617	2SC99F	1617	2SC108X	2030	2SC113K	2030	2SC118C	2030	2SC123E	2030	2SC132C	1617
2SC87R	1617	2SC99G	1617	2SC108Y	2030	2SC113L	2030	2SC118D	2030	2SC123F	2030	2SC132D	1617
2SC87X	1617	2SC99GN	1617	2SC109	2030	2SC113M	2030	2SC118E	2030	2SC123G	2030	2SC132E	1617
2SC87Y	1617	2SC99H	1617	2SC109A	2030	2SC113OR	2030	2SC118F	2030	2SC123GN	2030	2SC132F	1617
2SC88	2030	2SC99J	1617	2SC109A-O	2030	2SC113R	2030	2SC118G	2030	2SC123H	2030	2SC132G	1617
2SC88A	2030	2SC99K	1617	2SC109A-R	2030	2SC113X	2030	2SC118GN	2030	2SC123J	2030	2SC132GN	1617
2SC88B	2030	2SC99L	1617	2SC109A-Y	2030	2SC113Y	2030	2SC118H	2030	2SC123K	2030	2SC132H	1617
2SC88C	2030	2SC99M	1617	2SC109B	2030	2SC114	2030	2SC118J	2030	2SC123L	2030	2SC132J	1617
2SC88D	2030	2SC99OR	1617	2SC109C	2030	2SC114A	2030	2SC118L	2030	2SC123M	2030	2SC132K	1617
2SC88E	2030	2SC99R	1617	2SC109D	2030	2SC114B	2030	2SC118M	2030	2SC123OR	2030	2SC132L	1617
2SC88F	2020	2SC99X	1617	2SC109E	2030	2SC114C	2030	2SC118OR	2030	2SC123R	2030	2SC132M	1617
2SC88G	2030	2SC99Y	1617	2SC109F	2030	2SC114D	2030	2SC118R	2030	2SC123X	2030	2SC132OR	1617
2SC88GN	2030	2SC100	1617	2SC109G	2030	2SC114E	2030	2SC118X	2030	2SC123Y	2030	2SC132R	1617
2SC88H	2030	2SC100-OY	1617	2SC109G1	2030	2SC114F	2030	2SC118Y	2030	2SC124	2030	2SC132X	1617
2SC88J	2030	2SC100A	1617	2SC109GN	2030	2SC114G	2030	2SC119	2030	2SC124A	2030	2SC132Y	1617
2SC88K	2030	2SC100B	1617	2SC109J	2030	2SC114GN	2030	2SC119A	2030	2SC124B	2030	2SC133	1617
2SC88L	2030	2SC100C	1617	2SC109K	2030	2SC114H	2030	2SC119B	2030	2SC124C	2030	2SC133A	1617
2SC88M	2030	2SC100D	1617	2SC109L	2030	2SC114J	2030	2SC119C	2030	2SC124D	2030	2SC133C	1617
2SC88OR	2030	2SC100E	1617	2SC109OR	2030	2SC114K	2030	2SC119D	2030	2SC124E	2030	2SC133D	1617
2SC88R	2030	2SC100F	1617	2SC109R	2030	2SC114L	2030	2SC119E	2030	2SC124F	2030	2SC133E	1617
2SC88X	2030	2SC100G	1617	2SC109X	2030	2SC114M	2030	2SC119F	2030	2SC124G	2030	2SC133F	1617
2SC88Y	2030	2SC100GN	1617	2SC109Y	2030	2SC114OR	2030	2SC119G	2030	2SC124GN	2030	2SC133G	1617
2SC92	2020	2SC100J	1617	2SC110	1617	2SC114R	2030	2SC119GN	2030	2SC124H	2030	2SC133GN	1617
2SC93	2020	2SC100L	1617	2SC110A	1617	2SC114X	2030	2SC119H	2030	2SC124J	2030	2SC133H	1617
2SC94	2020	2SC100M	1617	2SC110B	1617	2SC114Y	2030	2SC119J	2030	2SC124K	2030	2SC133J	1617
2SC94AP	2020	2SC100OR	1617	2SC110C	1617	2SC115	2030	2SC119K	2030	2SC124L	2030	2SC133K	1617
2SC95	2030	2SC100R	1617	2SC110D	1617	2SC115-1	2030	2SC119L	2030	2SC124M	2030	2SC133L	1617
2SC95A	2020	2SC100X	1617	2SC110E	1617	2SC115-2	2030	2SC119M	2030	2SC124OR	2030	2SC133M	1617
2SC95B	2030	2SC100Y	1617	2SC110F	1617	2SC115-3	2030	2SC119OR	2030	2SC124R	2030	2SC133OR	1617
2SC95C	2030	2SC103	1617	2SC110G	1617	2SC115-43	2030	2SC119R	2030	2SC124X	2030	2SC133X	1617
2SC95D	2030	2SC103A	1617	2SC110GN	1617	2SC115A	2030	2SC119X	2030	2SC124Y	2030	2SC133Y	1617
2SC95E	2030	2SC103B	1617	2SC110H	1617	2SC115B	2030	2SC119Y	2030	2SC125	2030	2SC134	1617
2SC95F	2030	2SC103C	1617	2SC110J	1617	2SC115C	2030	2SC120	1617	2SC127	1617	2SC134A	1617
2SC95G	2030	2SC103D	1617	2SC110K	1617	2SC115D	2030	2SC120A	1617	2SC127A	1617	2SC134B	1617

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2SC134C	1617	2SC140A	2030	2SC152E	1617	2SC159A	1617	2SC170X	1617	2SC187J	2016	2SC192GN	1617
2SC134D	1617	2SC140C	2030	2SC152F	1617	2SC159B	1617	2SC170Y	1617	2SC187K	2016	2SC192H	1617
2SC134E	1617	2SC140D	2030	2SC152G	1617	2SC159C	1617	2SC171	1617	2SC187L	2016	2SC192J	1617
2SC134F	1617	2SC140E	2030	2SC152GN	1617	2SC159D	1617	2SC171A	1617	2SC187M	2016	2SC192K	1617
2SC134G	1617	2SC140F	2030	2SC152H	1617	2SC159E	1617	2SC171B	1617	2SC187OR	2016	2SC192L	1617
2SC134GN	1617	2SC140G	2030	2SC152HA	1617	2SC159F	1617	2SC171C	1617	2SC187R	2016	2SC192M	1617
2SC134H	1617	2SC140GN	2030	2SC152HB	1617	2SC159GN	1617	2SC171D	1617	2SC187X	2016	2SC192OR	1617
2SC134J	1617	2SC140H	2030	2SC152HC	1617	2SC159H	1617	2SC171E	1617	2SC187Y	2016	2SC192R	1617
2SC134K	1617	2SC140J	2030	2SC152J	1617	2SC159J	1617	2SC171F	1617	2SC188	2030	2SC192X	1617
2SC134L	1617	2SC140K	2030	2SC152K	1617	2SC159K	1617	2SC171G	1617	2SC188A	2030	2SC192Y	1617
2SC134M	1617	2SC140L	2030	2SC152L	1617	2SC159L	1617	2SC171GN	1617	2SC188AB	2030	2SC193	1617
2SC134OR	1617	2SC140M	2030	2SC152M	1617	2SC159M	1617	2SC171H	1617	2SC188B	2030	2SC193A	1617
2SC134R	1617	2SC140OR	2030	2SC152OR	1617	2SC159OR	1617	2SC171J	1617	2SC188C	2030	2SC193B	1617
2SC134X	1617	2SC140R	2030	2SC152R	1617	2SC159R	1617	2SC171K	1617	2SC188D	2030	2SC193C	1617
2SC134Y	1617	2SC140X	2030	2SC152X	1617	2SC159X	1617	2SC171L	1617	2SC188E	2030	2SC193D	1617
2SC135	1617	2SC140Y	2030	2SC152Y	1617	2SC159Y	1617	2SC171M	1617	2SC188F	2030	2SC193E	1617
2SC135A	1617	2SC141	2009	2SC153	2009	2SC160	1617	2SC171OR	1617	2SC188G	2030	2SC193F	1617
2SC135B	1617	2SC142	2009	2SC155	2016	2SC160A	1617	2SC171R	1617	2SC188GN	2030	2SC193G	1617
2SC135C	1617	2SC143	2009	2SC155A	2016	2SC160B	1617	2SC171X	1617	2SC188J	2030	2SC193GN	1617
2SC135D	1617	2SC144	2009	2SC155B	2016	2SC160C	1617	2SC171Y	1617	2SC188K	2030	2SC193H	1617
2SC135E	1617	2SC144A	2009	2SC155C	2016	2SC160D	1617	2SC172	1617	2SC188L	2030	2SC193J	1617
2SC135F	1617	2SC145	2009	2SC155D	2016	2SC160E	1617	2SC172A	1617	2SC188M	2030	2SC193K	1617
2SC135G	1617	2SC146	2009	2SC155E	2016	2SC160F	1617	2SC172B	1617	2SC188OR	2030	2SC193L	1617
2SC135GN	1617	2SC146A	2009	2SC155F	2016	2SC160G	1617	2SC172C	1617	2SC188R	2030	2SC193M	1617
2SC135H	1617	2SC148	2016	2SC155GN	2016	2SC160GN	1617	2SC172D	1617	2SC188X	2030	2SC193OR	1617
2SC135J	1617	2SC148A	2016	2SC155H	2016	2SC160H	1617	2SC172E	1617	2SC188Y	2030	2SC193R	1617
2SC135L	1617	2SC148B	2016	2SC155J	2016	2SC160J	1617	2SC172F	1617	2SC189	2030	2SC193X	1617
2SC135M	1617	2SC148D	2016	2SC155K	2016	2SC160K	1617	2SC172G	1617	2SC189A	2030	2SC194	1617
2SC135OR	1617	2SC148E	2016	2SC155L	2016	2SC160L	1617	2SC172GN	1617	2SC189B	2030	2SC194A	1617
2SC135R	1617	2SC148F	2016	2SC155M	2016	2SC160M	1617	2SC172H	1617	2SC189C	2030	2SC194B	1617
2SC135X	1617	2SC148G	2016	2SC155OR	2016	2SC160OR	1617	2SC172J	1617	2SC189D	2030	2SC194C	1617
2SC135Y	1617	2SC148GN	2016	2SC155R	2016	2SC160R	1617	2SC172K	1617	2SC189E	2030	2SC194D	1617
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2SC197G	1617	2SC204B	1617	2SC210X	2030	2SC218R	2030	2SC226OR	2030	2SC237K	1617	2SC242H	2041
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2SC263M	2016	2SC272G	2016	2SC286R	2016	2SC302J	1617	2SC310F	2030	2SC318A	1617	2SC343	1617
2SC263OR	2016	2SC272GN	2016	2SC286X	2016	2SC302K	1617	2SC310G	2030	2SC318AB	1617	2SC344	2016
2SC263R	2016	2SC272H	2016	2SC286Y	2016	2SC302L	1617	2SC310GN	2030	2SC318B	1617	2SC344(Y)	2016
2SC263X	2016	2SC272J	2016	2SC289	2016	2SC302M	1617	2SC310H	2030	2SC318C	1617	2SC344Y	2016
2SC263Y	2016	2SC272K	2016	2SC289A	2016	2SC302OR	1617	2SC310J	2030	2SC318D	1617	2SC346	1617
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2SC268F	2030	2SC281OR	2009	2SC291K	2030	2SC307E	2030	2SC315	1617	2SC321K	1617	2SC350G	1617
2SC268G	2030	2SC281R	2009	2SC291M	2030	2SC307F	2030	2SC315A	1617	2SC321L	1617	2SC350GN	1617
2SC268GN	2030	2SC281X	2009	2SC291OR	2030	2SC307G	2030	2SC315B	1617	2SC321M	1617	2SC350H	1617
2SC268H	2030	2SC281Y	2009	2SC291R	2030	2SC307GN	2030	2SC315C	1617	2SC321OR	1617	2SC350J	1617
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2SC269	2016	2SC282GN	1617	2SC300C	1617	2SC307Y	2030	2SC315L	1617	2SC323D	1617	2SC351(FA)	2016
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2SC269B	2016	2SC282J	1617	2SC300E	1617	2SC308A	2030	2SC315OR	1617	2SC323F	1617	2SC351B	2016
2SC269C	2016	2SC282K	1617	2SC300F	1617	2SC308B	2030	2SC315R	1617	2SC323G	1617	2SC351C	2016
2SC269D	2016	2SC282L	1617	2SC300G	1617	2SC308C	2030	2SC315X	1617	2SC323GN	1617	2SC351D	2016
2SC269E	2016	2SC282M	1617	2SC300GN	1617	2SC308D	2030	2SC315Y	1617	2SC323H	1617	2SC351E	2016
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2SC271B	2016	2SC284J	1617	2SC301E	1617	2SC309A	2030	2SC316OR	1617	2SC324E	1617	2SC352-OR	2009
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2SC271X	2016	2SC286F	2016	2SC302A	1617	2SC309R	2030	2SC317J	1617	2SC332	2009	2SC352M	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC352OR	2009	2SC362H	2009	2SC368GN	2016	2SC371H	2009	2SC374C	2016	2SC378-R	2009	2SC380GN	2009
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2SC360C	1617	2SC366K	2009	2SC370-0	2009	2SC372Y	2009	2SC376H	2009	2SC380-0/4454C	2009	2SC381X	2016
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2SC360E	1617	2SC366M	2009	2SC370-O	2009	2SC372YEL	2009	2SC376K	2009	2SC380-O	2009	2SC382	2009
2SC360F	1617	2SC366OR	2009	2SC370-T	2009	2SC372YEL-G	2009	2SC376L	2009	2SC380-O/4454C	2009	2SC382(BL)	2009
2SC360G	1617	2SC366X	2009	2SC370A	2009	2SC372Z	2009	2SC376M	2009	2SC380-OR	2009	2SC382(BN)	2009
2SC360GN	1617	2SC367	2009	2SC370B	2009	2SC373	2009	2SC376OR	2009	2SC380-ORG	2009	2SC382(R)	2009
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2SC360J	1617	2SC367-ORG-G	2009	2SC370D	2009	2SC373-0	2009	2SC376X	2009	2SC380-RED	2009	2SC382-BK(2)	2009
2SC360K	1617	2SC367-R	2009	2SC370E	2009	2SC373-14	2009	2SC376Y	2009	2SC380-Y	2009	2SC382-G	2009
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2SC360M	1617	2SC367-Y	2009	2SC370G	2009	2SC373-O	2009	2SC377-0	2009	2SC380A	2009	2SC382-GY	2009
2SC360OR	1617	2SC367-YEL-G	2009	2SC370GN	2009	2SC373-OR	2009	2SC377-BN	2009	2SC380A(D)	2009	2SC382-OR	2009
2SC360R	1617	2SC367A	2009	2SC370H	2009	2SC373A	2009	2SC377-BRN	2009	2SC380A(O)	2009	2SC382-R	2009
2SC360X	1617	2SC367B	2009	2SC370I	2009	2SC373AL	2009	2SC377-O	2009	2SC380A(R)	2009	2SC382-V	2009
2SC360Y	1617	2SC367C	2009	2SC370J	2009	2SC373B	2009	2SC377-OR	2009	2SC380A(Y)	2009	2SC382A	2009
2SC361	2009	2SC367D	2009	2SC370K	2009	2SC373C	2009	2SC377-ORG	2009	2SC380A + O)	2009	2SC382B	2009
2SC361A	2009	2SC367E	2009	2SC370L	2009	2SC373D	2009	2SC377-R	2009	2SC380A-0	2009	2SC382BK	2009
2SC361B	2009	2SC367F	2009	2SC370M	2009	2SC373E	2009	2SC377-RED	2009	2SC380A0	2009	2SC382BK1	2009
2SC361C	2009	2SC367G	2009	2SC370OR	2009	2SC373F	2009	2SC377A	2009	2SC380A-O	2009	2SC382BK2	2009
2SC361D	2009	2SC367GN	2009	2SC370R	2009	2SC373G	2009	2SC377B	2009	2SC380AO	2009	2SC382BL	2009
2SC361E	2009	2SC367G-O	2009	2SC370X	2009	2SC373GN	2009	2SC377BN	2009	2SC380A-O(TV)	2009	2SC382BN	2009
2SC361F	2009	2SC367G-R	2009	2SC370Y	2009	2SC373GR	2009	2SC377BRN	2009	2SC380A-R	2009	2SC382BR	2009
2SC361G	2009	2SC367G-Y	2009	2SC371	2009	2SC373H	2009	2SC377C	2009	2SC380AR	2009	2SC382C	2009
2SC361GN	2009	2SC367H	2009	2SC371(0)	2009	2SC373J	2009	2SC377D	2009	2SC380ATV	2009	2SC382D	2009
2SC361H	2009	2SC367J	2009	2SC371(O)	2009	2SC373K	2009	2SC377E	2009	2SC380A-Y	2009	2SC382E	2009
2SC361J	2009	2SC367K	2009	2SC371-0	2009	2SC373L	2009	2SC377F	2009	2SC380AY	2009	2SC382F	2009
2SC361K	2009	2SC367L	2009	2SC371-O	2009	2SC373M	2009	2SC377G	2009	2SC380B	2009	2SC382G	2009
2SC361L	2009	2SC367M	2009	2SC371-OR	2009	2SC373OR	2009	2SC377GN	2009	2SC380B-Y	2009	2SC382GN	2009
2SC361M	2009	2SC367OR	2009	2SC371-ORG-G	2009	2SC373R	2009	2SC377H	2009	2SC380BY	2009	2SC382GR	2009
2SC361OR	2009	2SC367R	2009	2SC371-R	2009	2SC373W	2009	2SC377J	2009	2SC380C	2009	2SC382GY	2009
2SC361R	2009	2SC367X	2009	2SC371-RED-G	2009	2SC373X	2009	2SC377K	2009	2SC380C-Y	2009	2SC382H	2009
2SC361X	2009	2SC367Y	2009	2SC371-T	2009	2SC373Y	2009	2SC377L	2009	2SC380CY	2009	2SC382J	2009
2SC361Y	2009	2SC368	2016	2SC371A	2009	2SC374	2016	2SC377M	2009	2SC380D	2009	2SC382K	2009
2SC362	2009	2SC368-BL	2016	2SC371B	2009	2SC374(BL)	2016	2SC377O	2009	2SC380D-Y	2009	2SC382L	2009
2SC362A	2009	2SC368-GR	2016	2SC371C	2009	2SC374(V)	2016	2SC377OR	2009	2SC380DY	2009	2SC382M	2009
2SC362B	2009	2SC368A	2016	2SC371D	2009	2SC374-BL	2016	2SC377R	2009	2SC380E	2009	2SC382OR	2009
2SC362C	2009	2SC368B	2016	2SC371E	2009	2SC374-OR	2016	2SC377RED	2009	2SC380E-Y	2009	2SC382R	2009
2SC362D	2009	2SC368C	2016	2SC371F	2009	2SC374-V	2016	2SC377X	2009	2SC380EY	2009	2SC382V	2009
2SC362E	2009	2SC368D	2016	2SC371G	2009	2SC374A	2016	2SC377Y	2009	2SC380F	2009	2SC382W	2009
2SC362F	2009	2SC368E	2016	2SC371GN	2009	2SC374B	2016	2SC378	2009	2SC380F-Y	2009	2SC382W,R	2009
2SC362G	2009	2SC368F	2016	2SC371G-O	2009	2SC374BL	2016	2SC378-O	2009	2SC380FY	2009	2SC382X	2009
2SC362GN	2009	2SC368G	2016	2SC371G-R	2009	2SC374BLK	2016	2SC378-ORG	2009	2SC380G	2009	2SC382Y	2009

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2SC383	2009	2SC387A(FA-3)	2016	2SC391Y	2009	2SC398E	2009	2SC402M	2009	2SC423D	1617	2SC455D	2009
2SC383(T)	2009	2SC387AG	2016	2SC393	2009	2SC398F	2009	2SC402OR	2009	2SC423E	1617	2SC455E	2009
2SC383-OR	2009	2SC387B	2016	2SC394	2009	2SC398FA1	2009	2SC402R	2009	2SC423F	1617	2SC455F	2009
2SC383A	2009	2SC387C	2016	2SC394(0)	2009	2SC398G	2009	2SC402X	2009	2SC423G	1617	2SC455G	2009
2SC383B	2009	2SC387D	2016	2SC394(O)	2009	2SC398GN	2009	2SC402Y	2009	2SC423GN	1617	2SC455GN	2009
2SC383C	2009	2SC387E	2016	2SC394-0	2009	2SC398H	2009	2SC403	2009	2SC423H	1617	2SC455H	2009
2SC383D	2009	2SC387F	2016	2SC394-GR	2009	2SC398J	2009	2SC403(C)	2009	2SC423J	1617	2SC455J	2009
2SC383E	2009	2SC387FA3	2016	2SC394-GRN	2009	2SC398K	2009	2SC403(SONY)	2009	2SC423K	1617	2SC455K	2009
2SC383F	2009	2SC387G	2016	2SC394-O	2009	2SC398L	2009	2SC403-OR	2009	2SC423L	1617	2SC455L	2009
2SC383G	2009	2SC387GN	2016	2SC394-OR	2009	2SC398M	2009	2SC403A	2009	2SC423M	1617	2SC455M	2009
2SC383GN	2009	2SC387H	2016	2SC394-ORG	2009	2SC398OR	2009	2SC403AL	2009	2SC423OR	1617	2SC455OR	2009
2SC383H	2009	2SC387J	2016	2SC394-R	2009	2SC398R	2009	2SC403B	2009	2SC423R	1617	2SC455R	2009
2SC383J	2009	2SC387K	2016	2SC394-RED	2009	2SC398X	2009	2SC403C	2009	2SC423X	1617	2SC455X	2009
2SC383K	2009	2SC387L	2016	2SC394-Y	2009	2SC398Y	2009	2SC403CG	2009	2SC423Y	1617	2SC455Y	2009
2SC383L	2009	2SC387M	2016	2SC394-YEL	2009	2SC399	2009	2SC403D	2009	2SC424	1617	2SC457	2009
2SC383M	2009	2SC387OR	2016	2SC394A	2009	2SC399A	2009	2SC403E	2009	2SC424D	1617	2SC458	2009
2SC383OR	2009	2SC387R	2016	2SC394AP	2009	2SC399B	2009	2SC403F	2009	2SC425	1617	2SC458(A)	2009
2SC383R	2009	2SC387X	2016	2SC394B	2009	2SC399C	2009	2SC403G	2009	2SC425A	1617	2SC458(B)	2009
2SC383T	2009	2SC387Y	2016	2SC394C	2009	2SC399D	2009	2SC403GN	2009	2SC425B	1617	2SC458(C)	2009
2SC383TM	2009	2SC388	2009	2SC394D	2009	2SC399E	2009	2SC403H	2009	2SC425C	1617	2SC458(C,D)	2009
2SC383W	2009	2SC388-A	2009	2SC394E	2009	2SC399F	2009	2SC403J	2009	2SC425D	1617	2SC458(D)	2009
2SC383X	2009	2SC388-O	2009	2SC394F	2009	2SC399FA1	2009	2SC403K	2009	2SC425E	1617	2SC458(LG)	2009
2SC383Y	2009	2SC388-OR	2009	2SC394G	2009	2SC399G	2009	2SC403L	2009	2SC425F	1617	2SC458-4	2009
2SC384	2016	2SC388A	2009	2SC394GN	2009	2SC399GN	2009	2SC403M	2009	2SC425G	1617	2SC458-6	2009
2SC384(O)	2016	2SC388A-TM	2009	2SC394GR	2009	2SC399H	2009	2SC403OR	2009	2SC425GN	1617	2SC458-B	2009
2SC384(Y)	2016	2SC388ATM	2009	2SC394GRN	2009	2SC399J	2009	2SC403R	2009	2SC425H	1617	2SC458-C	2009
2SC384-0	2016	2SC388ATMFA	2009	2SC394H	2009	2SC399K	2009	2SC403X	2009	2SC425K	1617	2SC458-D	2009
2SC384A	2016	2SC388B	2009	2SC394J	2009	2SC399L	2009	2SC403Y	2009	2SC425L	1617	2SC458-GR	2009
2SC384B	2016	2SC388C	2009	2SC394K	2009	2SC399M	2009	2SC404	2009	2SC425M	1617	2SC458-O	2009
2SC384C	2016	2SC388D	2009	2SC394L	2009	2SC399OR	2009	2SC404A	2009	2SC425OR	1617	2SC458-OR	2009
2SC384D	2016	2SC388E	2009	2SC394M	2009	2SC399R	2009	2SC404B	2009	2SC425R	1617	2SC458-Y	2009
2SC384E	2016	2SC388F	2009	2SC394O	2009	2SC399X	2009	2SC404C	2009	2SC425X	1617	2SC458A	2009
2SC384F	2016	2SC388FA	2009	2SC394OR	2009	2SC399Y	2009	2SC404D	2009	2SC425Y	1617	2SC458AP	2009
2SC384G	2016	2SC388G	2009	2SC394R	2009	2SC400	1617	2SC404E	2009	2SC426	2009	2SC458AK	2009
2SC384GN	2016	2SC388GN	2009	2SC394RED	2009	2SC400-0	1617	2SC404F	2009	2SC427	2009	2SC458B	2009
2SC384H	2016	2SC388H	2009	2SC394W	2009	2SC400-GR	1617	2SC404G	2009	2SC428	2009	2SC458BC	2009
2SC384J	2016	2SC388J	2009	2SC394X	2009	2SC400-O	1617	2SC404GN	2009	2SC433	2009	2SC458BD	2009
2SC384K	2016	2SC388K	2009	2SC394Y	2009	2SC400-R	1617	2SC404H	2009	2SC443	2030	2SC458BL	2009
2SC384L	2016	2SC388L	2009	2SC394YEL	2009	2SC400-Y	1617	2SC404J	2009	2SC443A	2030	2SC458BM	2009
2SC384M	2016	2SC388M	2009	2SC395	1617	2SC400A	1617	2SC404K	2009	2SC443B	2030	2SC458C	2009
2SC384OR	2016	2SC388OR	2009	2SC395A	1617	2SC400B	1617	2SC404L	2009	2SC443C	2030	2SC458C/LG	2009
2SC384R	2016	2SC388R	2009	2SC395A-O	1617	2SC400C	1617	2SC404M	2009	2SC443D	2030	2SC458CD	2009
2SC384X	2016	2SC388TM	2009	2SC395A-ORG	1617	2SC400D	1617	2SC404OR	2009	2SC443E	2030	2SC458CL	2009
2SC384Y	2016	2SC388X	2009	2SC395A-R	1617	2SC400E	1617	2SC404R	2009	2SC443F	2030	2SC458CLG	2009
2SC385	2016	2SC388Y	2009	2SC395A-RED	1617	2SC400F	1617	2SC404X	2009	2SC443G	2030	2SC458CM	2009
2SC385A	2016	2SC389	2016	2SC395A-Y	1617	2SC400G	1617	2SC404Y	2009	2SC443GN	2030	2SC458D	2009
2SC385B	2016	2SC389-O	2016	2SC395A-YEL	1617	2SC400GN	1617	2SC405	1617	2SC443H	2030	2SC458E	2009
2SC385C	2016	2SC389-OR	2016	2SC395B	1617	2SC400H	1617	2SC405A	1617	2SC443J	2030	2SC458F	2009
2SC385D	2016	2SC389A	2016	2SC395C	1617	2SC400J	1617	2SC405B	1617	2SC443K	2030	2SC458G	2009
2SC385E	2016	2SC389AFP	2016	2SC395D	1617	2SC400K	1617	2SC405C	1617	2SC443L	2030	2SC458GN	2009
2SC385F	2016	2SC389B	2016	2SC395E	1617	2SC400L	1617	2SC405D	1617	2SC443M	2030	2SC458H	2009
2SC385G	2016	2SC389BL(E-O)	2016	2SC395F	1617	2SC400M	1617	2SC405E	1617	2SC443OR	2030	2SC458J	2009
2SC385GN	2016	2SC389C	2016	2SC395G	1617	2SC400OR	1617	2SC405F	1617	2SC443R	2030	2SC458K	2009
2SC385H	2016	2SC389D	2016	2SC395GN	1617	2SC400R	1617	2SC405G	1617	2SC443X	2030	2SC458KB	2009
2SC385J	2016	2SC389E	2016	2SC395H	1617	2SC400X	1617	2SC405GN	1617	2SC443Y	2030	2SC458L	2009
2SC385K	2016	2SC389F	2016	2SC395J	1617	2SC400Y	1617	2SC405H	1617	2SC454	2009	2SC458L(C)	2009
2SC385L	2016	2SC389G	2016	2SC395K	1617	2SC401	2009	2SC405J	1617	2SC454(B)	2009	2SC458L6	2009
2SC385M	2016	2SC389GN	2016	2SC395L	1617	2SC401A	2009	2SC405K	1617	2SC454(C)	2009	2SC458LB	2009
2SC385OR	2016	2SC389H	2016	2SC395M	1617	2SC401B	2009	2SC405L	1617	2SC454-3	2009	2SC458LC	2009
2SC385R	2016	2SC389J	2016	2SC395OR	1617	2SC401C	2009	2SC405M	1617	2SC454-5	2009	2SC458LD	2009
2SC385X	2016	2SC389K	2016	2SC395R	1617	2SC401D	2009	2SC405OR	1617	2SC454-C	2009	2SC458LG	2009
2SC385Y	2016	2SC389L	2016	2SC395X	1617	2SC401E	2009	2SC405R	1617	2SC454-OR	2009	2SC458LG(F)	2009
2SC386	2016	2SC389LP	2016	2SC395Y	1617	2SC401F	2009	2SC405X	1617	2SC454A	2009	2SC458LG(C)	2009
2SC386-O	2016	2SC389M	2016	2SC397	2016	2SC401G	2009	2SC405Y	1617	2SC454B	2009	2SC458LG(D)	2009
2SC386A	2016	2SC389O	2016	2SC397A	2016	2SC401GN	2009	2SC406	1617	2SC454B-6	2009	2SC458LGA	2009
2SC386A-0(TV)	2016	2SC389OR	2016	2SC397B	2016	2SC401H	2009	2SC406A	1617	2SC454BL	2009	2SC458LGB	2009
2SC386AO	2016	2SC389P	2016	2SC397C	2016	2SC401J	2009	2SC406B	1617	2SC454C	2009	2SC458LGBM	2009
2SC386B	2016	2SC389R	2016	2SC397D	2016	2SC401K	2009	2SC406C	1617	2SC454D	2009	2SC458LGC	2009
2SC386C	2016	2SC389X	2016	2SC397E	2016	2SC401L	2009	2SC406D	1617	2SC454E	2009	2SC458LGC-6	2009
2SC386D	2016	2SC389Y	2016	2SC397F	2016	2SC401M	2009	2SC406E	1617	2SC454F	2009	2SC458LGD	2009
2SC386E	2016	2SC391	2009	2SC397G	2016	2SC401OR	2009	2SC406F	1617	2SC454G	2009	2SC458LGO	2009
2SC386F	2016	2SC391A	2009	2SC397GN	2016	2SC401R	2009	2SC406G	1617	2SC454GN	2009	2SC458LGR	2009
2SC386G	2016	2SC391B	2009	2SC397H	2016	2SC401X	2009	2SC406GN	1617	2SC454H	2009	2SC458LGS	2009
2SC386GN	2016	2SC391C	2009	2SC397J	2016	2SC401Y	2009	2SC406H	1617	2SC454J	2009	2SC458M	2009
2SC386H	2016	2SC391D	2009	2SC397K	2016	2SC402	2009	2SC406J	1617	2SC454K	2009	2SC458OR	2009
2SC386J	2016	2SC391E	2009	2SC397L	2016	2SC402A	2009	2SC406K	1617	2SC454L	2009	2SC458R	2009
2SC386K	2016	2SC391F	2009	2SC397M	2016	2SC402B	2009	2SC406L	1617	2SC454LA	2009	2SC458RGS	2009
2SC386L	2016	2SC391G	2009	2SC397OR	2016	2SC402C	2009	2SC406M	1617	2SC454M	2009	2SC458X	2009
2SC386M	2016	2SC391GN	2009	2SC397R	2016	2SC402D	2009	2SC406OR	1617	2SC454OR	2009	2SC458Y	2009
2SC386OR	2016	2SC391H	2009	2SC397X	2016	2SC402E	2009	2SC406R	1617	2SC454R	2009	2SC459	2009
2SC386R	2016	2SC391J	2009	2SC397Y	2016	2SC402F	2009	2SC406X	1617	2SC454X	2009	2SC459A	2009
2SC386X	2016	2SC391K	2009	2SC398	2009	2SC402G	2009	2SC406Y	1617	2SC454Y	2009	2SC459B	2009
2SC386Y	2016	2SC391L	2009	2SC398(FA-1)	2009	2SC402GN	2009	2SC423	1617	2SC455	2009	2SC459C	2009
2SC387	2016	2SC391M	2009	2SC398A	2009	2SC402H	2009	2SC423-O	1617	2SC455-OR	2009	2SC459D	2009
2SC387-G	2016	2SC391OR	2009	2SC398B	2009	2SC402J	2009	2SC423A	1617	2SC455A	2009	2SC459E	2009
2SC387-OR	2016	2SC391R	2009	2SC398C	2009	2SC402K	2009	2SC423B	1617	2SC455B	2009	2SC459F	2009
2SC387A	2016	2SC391X	2009	2SC398D	2009	2SC402L	2009	2SC423C	1617	2SC455C	2009	2SC459G	2009

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2SC459GN	2009	2SC472GN	2058	2SC494L	2041	2SC499OR	2009	2SC516A	2030	2SC536EJ	2009	2SC537G2	2009
2SC459H	2009	2SC472H	2058	2SC494M	2041	2SC499R	2009	2SC516B	2030	2SC536EN	2009	2SC537GFL	2009
2SC459J	2009	2SC472J	2058	2SC494OR	2041	2SC499RED	2009	2SC516C	2030	2SC536EP	2009	2SC537GI	2009
2SC459K	2009	2SC472K	2058	2SC494R	2041	2SC499RY	2009	2SC516D	2030	2SC536ER	2009	2SC537H	2009
2SC459L	2009	2SC472L	2058	2SC494X	2041	2SC499X	2009	2SC516E	2030	2SC536ET	2009	2SC537HT	2009
2SC459M	2009	2SC472M	2058	2SC494Y	2041	2SC499Y	2009	2SC516F	2030	2SC536EZ	2009	2SC537WF	2009
2SC459OR	2009	2SC472OR	2058	2SC497	2030	2SC499YEL	2009	2SC516G	2030	2SC536F	2009	2SC538	1617
2SC459R	2009	2SC472R	2058	2SC497-0	2030	2SC501	2030	2SC516GN	2030	2SC536F1	2009	2SC538(A)	1617
2SC459X	2009	2SC472X	2058	2SC497-O	2030	2SC501-O	2030	2SC516H	2030	2SC536F2	2009	2SC538(P)	1617
2SC459Y	2009	2SC472Y	2058	2SC497-OR	2030	2SC501-ORG	2030	2SC516J	2030	2SC536FC	2009	2SC538(R)	1617
2SC460	2009	2SC473	1617	2SC497-ORG	2030	2SC501-R	2030	2SC516K	2030	2SC536FP	2009	2SC538-Q	1617
2SC460(A)	2009	2SC473AC	1617	2SC497-R	2030	2SC501-RED	2030	2SC516L	2030	2SC536FS	2009	2SC538A	1617
2SC460(B)	2009	2SC474	2009	2SC497-RED	2030	2SC501-Y	2030	2SC516M	2030	2SC536FS6	2009	2SC538A(Q)	1617
2SC460(C)	2009	2SC477	2016	2SC497-Y	2030	2SC501-YEL	2030	2SC516OR	2030	2SC536FZ	2009	2SC538A-P	1617
2SC460-5	2009	2SC477A	2016	2SC497-YEL	2030	2SC501A	2030	2SC516R	2030	2SC536G	2009	2SC538A-Q	1617
2SC460-B	2009	2SC477B	2016	2SC497A	2030	2SC501B	2030	2SC516X	2030	2SC536G-1	2009	2SC538A-R	1617
2SC460-C	2009	2SC477C	2016	2SC497B	2030	2SC501C	2030	2SC516Y	2030	2SC536G1	2009	2SC538AR	1617
2SC460-OR	2009	2SC477D	2016	2SC497C	2030	2SC501D	2030	2SC527	2016	2SC536G2	2009	2SC538AS	1617
2SC460A	2009	2SC477E	2016	2SC497D	2030	2SC501E	2030	2SC528	2016	2SC536GF	2009	2SC538K	1617
2SC460A2302-17	2009	2SC477F	2016	2SC497E	2030	2SC501F	2030	2SC529	2009	2SC536GJ	2009	2SC538P	1617
2SC460B	2009	2SC477G	2016	2SC497F	2030	2SC501G	2030	2SC529A	2009	2SC536GK	2009	2SC538Q	1617
2SC460BL	2009	2SC477GN	2016	2SC497G	2030	2SC501GN	2030	2SC529B	2009	2SC536GL	2009	2SC538R	1617
2SC460C	2009	2SC477H	2016	2SC497GN	2030	2SC501H	2030	2SC529C	2009	2SC536GM	2009	2SC538S	1617
2SC460D	2009	2SC477J	2016	2SC497H	2030	2SC501J	2030	2SC529D	2009	2SC536GN	2009	2SC538T	1617
2SC460E	2009	2SC477K	2016	2SC497J	2030	2SC501K	2030	2SC529E	2009	2SC536GP	2009	2SC539	1617
2SC460F	2009	2SC477L	2016	2SC497K	2030	2SC501L	2030	2SC529F	2009	2SC536GT	2009	2SC539(L)(K)	1617
2SC460G	2009	2SC477M	2016	2SC497L	2030	2SC501M	2030	2SC529G	2009	2SC536GV	2009	2SC539(R)	1617
2SC460GB	2009	2SC477OR	2016	2SC497M	2030	2SC501O	2030	2SC529GN	2009	2SC536GY	2009	2SC539R	1617
2SC460GN	2009	2SC477R	2016	2SC497OR	2030	2SC501OR	2030	2SC529H	2009	2SC536GZ	2009	2SC539S	1617
2SC460H	2009	2SC477X	2016	2SC497R	2030	2SC501R	2030	2SC529J	2009	2SC536H	2009	2SC539T	1617
2SC460J	2009	2SC477Y	2016	2SC497RED	2030	2SC501X	2030	2SC529K	2009	2SC536J	2009	2SC541	2017
2SC460K	2009	2SC478	1617	2SC497X	2030	2SC501Y	2030	2SC529L	2009	2SC536K	2009	2SC542	2017
2SC460L	2009	2SC478(D)	1617	2SC497Y	2030	2SC503	2030	2SC529M	2009	2SC536K(G)	2009	2SC543	2020
2SC460M	2009	2SC478-4	1617	2SC498	2030	2SC503-GR	2030	2SC529OR	2009	2SC536KE	2009	2SC543A	2020
2SC460OR	2009	2SC478-O	1617	2SC498-0	2030	2SC503-O	2030	2SC529R	2009	2SC536KF	2009	2SC543B	2020
2SC460R	2009	2SC478A	1617	2SC498-O	2030	2SC503-Y	2030	2SC529X	2009	2SC536KNP	2009	2SC543C	2020
2SC460X	2009	2SC478B	1617	2SC498-OR	2030	2SC503A	2030	2SC529Y	2009	2SC536KNPFT	2009	2SC543D	2020
2SC460Y	2009	2SC478C	1617	2SC498-ORG	2030	2SC503B	2030	2SC530	2009	2SC536KNP-T	2009	2SC543E	2020
2SC461	2009	2SC478D	1617	2SC498-R	2030	2SC503C	2030	2SC531	2009	2SC536L	2009	2SC543F	2020
2SC461(8F)	2009	2SC478E	1617	2SC498-RED	2030	2SC503D	2030	2SC532	2009	2SC536M	2009	2SC543G	2020
2SC461-8F	2009	2SC478F	1617	2SC498-Y	2030	2SC503E	2030	2SC532O	2009	2SC536NP	2009	2SC543GN	2020
2SC461-A	2009	2SC478G	1617	2SC498-YEL	2030	2SC503F	2030	2SC533	2009	2SC536NP(E)	2009	2SC543H	2020
2SC461-B	2009	2SC478GN	1617	2SC498A	2030	2SC503G	2030	2SC534	2009	2SC536NP(F)	2009	2SC543J	2020
2SC461A	2009	2SC478H	1617	2SC498B	2030	2SC503GN	2030	2SC535	2016	2SC536NP(G)	2009	2SC543K	2020
2SC461AL	2009	2SC478J	1617	2SC498C	2030	2SC503GR	2030	2SC535(B)	2016	2SC536NPE	2009	2SC543L	2020
2SC461B	2009	2SC478K	1617	2SC498D	2030	2SC503H	2030	2SC535(C)	2016	2SC536NPF	2009	2SC543M	2020
2SC461BF	2009	2SC478L	1617	2SC498E	2030	2SC503J	2030	2SC535-OR	2016	2SC536NPG	2009	2SC543OR	2020
2SC461BK	2009	2SC478M	1617	2SC498F	2030	2SC503K	2030	2SC535A	2016	2SC536NP-T	2009	2SC543R	2020
2SC461BL	2009	2SC478OR	1617	2SC498G	2030	2SC503L	2030	2SC535ABC	2016	2SC536OR	2009	2SC543X	2020
2SC461C	2009	2SC478R	1617	2SC498GN	2030	2SC503M	2030	2SC535AL	2016	2SC536R	2009	2SC543Y	2020
2SC461E	2009	2SC478X	1617	2SC498H	2030	2SC503OR	2030	2SC535B	2016	2SC536SP	2009	2SC544	2016
2SC461EP	2009	2SC478Y	1617	2SC498J	2030	2SC503R	2030	2SC535C	2016	2SC536SP(F)	2009	2SC544A	2016
2SC461F	2009	2SC479	2030	2SC498K	2030	2SC503X	2030	2SC535D	2016	2SC536SP(G)	2009	2SC544AG	2016
2SC461L	2009	2SC479A	2030	2SC498L	2030	2SC504	2030	2SC535E	2016	2SC536W	2009	2SC544B	2016
2SC462	2009	2SC479B	2030	2SC498M	2030	2SC504-GR	2030	2SC535F	2016	2SC536X	2009	2SC544C	2016
2SC463	2016	2SC479C	2030	2SC498OR	2030	2SC504-O	2030	2SC535G	2016	2SC536XL	2009	2SC544D	2016
2SC463A	2016	2SC479D	2030	2SC498R	2030	2SC504-Y	2030	2SC535GN	2016	2SC536Y	2009	2SC544D(VHF)	2016
2SC463B	2016	2SC479E	2030	2SC498RED	2030	2SC504A	2030	2SC535H	2016	2SC536YF	2009	2SC544E	2016
2SC463C	2016	2SC479F	2030	2SC498X	2030	2SC504B	2030	2SC535J	2016	2SC537	2009	2SC544F	2016
2SC463D	2016	2SC479G	2030	2SC498Y	2030	2SC504C	2030	2SC535K	2016	2SC537(F)	2009	2SC544G	2016
2SC463E	2016	2SC479GN	2030	2SC498YEL	2030	2SC504D	2030	2SC535L	2016	2SC537(G)	2009	2SC544GN	2016
2SC463F	2016	2SC479H	2030	2SC499	2009	2SC504E	2030	2SC535M	2016	2SC537-C7	2009	2SC544H	2016
2SC463G	2016	2SC479J	2030	2SC499(A)	2009	2SC504F	2030	2SC535OR	2016	2SC537-EV	2009	2SC544J	2016
2SC463GN	2016	2SC479K	2030	2SC499(R)	2009	2SC504G	2030	2SC535R	2016	2SC537ALC	2009	2SC544K	2016
2SC463H	2016	2SC479L	2030	2SC499(Y)	2009	2SC504GN	2030	2SC535X	2016	2SC537B	2009	2SC544L	2016
2SC463J	2016	2SC479M	2030	2SC499-OR	2009	2SC504GR	2030	2SC535Y	2016	2SC537BK	2009	2SC544M	2016
2SC463K	2016	2SC479OR	2030	2SC499-R	2009	2SC504H	2030	2SC536	2009	2SC537C	2009	2SC544OR	2016
2SC463L	2016	2SC479R	2030	2SC499-R(FA-1)	2009	2SC504J	2030	2SC536(C)	2009	2SC537C7	2009	2SC544R	2016
2SC463M	2016	2SC479X	2030	2SC499-RED	2009	2SC504K	2030	2SC536(D)	2009	2SC537D	2009	2SC544X	2016
2SC463OR	2016	2SC479Y	2030	2SC499-RY	2009	2SC504L	2030	2SC536(E)	2009	2SC537D1	2009	2SC544Y	2016
2SC463R	2016	2SC493	2041	2SC499-Y	2009	2SC504M	2030	2SC536(F)	2009	2SC537D2	2009	2SC545	2016
2SC463X	2016	2SC494	2041	2SC499-Y(FA-1)	2009	2SC504OR	2030	2SC536(G)	2009	2SC537E	2009	2SC545A	2016
2SC463Y	2016	2SC494-BL	2041	2SC499-YEL	2009	2SC504R	2030	2SC536-D	2009	2SC537EF	2009	2SC545B	2016
2SC467	2016	2SC494-R	2041	2SC499A	2009	2SC504X	2030	2SC536-E	2009	2SC537EH	2009	2SC545C	2016
2SC468	1617	2SC494-Y	2041	2SC499B	2009	2SC509	2009	2SC536-F	2009	2SC537EJ	2009	2SC545D	2016
2SC468A	1617	2SC494A	2041	2SC499C	2009	2SC509(0)	2009	2SC536-G	2009	2SC537EV	2009	2SC545E	2016
2SC468B	1617	2SC494B	2041	2SC499D	2009	2SC509(O)	2009	2SC536-OR	2009	2SC537F	2009	2SC546	2016
2SC468H	1617	2SC494BL	2041	2SC499E	2009	2SC509(Y)	2009	2SC536A	2009	2SC537F1	2009	2SC546K	2016
2SC468LGR	1617	2SC494C	2041	2SC499F	2009	2SC509-0	2009	2SC536AF	2009	2SC537F2	2009	2SC548	2017
2SC472	2058	2SC494D	2041	2SC499FA1	2009	2SC509-O	2009	2SC536AG	2009	2SC537FC	2009	2SC550	2017
2SC472A	2058	2SC494E	2041	2SC499G	2009	2SC509-Y	2009	2SC536B	2009	2SC537F-C7	2009	2SC550A	2017
2SC472B	2058	2SC494F	2041	2SC499GN	2009	2SC509G	2009	2SC536C	2009	2SC537FC7	2009	2SC551	2020
2SC472C	2058	2SC494G	2041	2SC499H	2009	2SC509G-O	2009	2SC536D	2009	2SC537FJ	2009	2SC552	2020
2SC472D	2058	2SC494GN	2041	2SC499J	2009	2SC509G-Y	2009	2SC536DK	2009	2SC537FK	2009	2SC553	2020
2SC472E	2058	2SC494H	2041	2SC499K	2009	2SC509O	2009	2SC536E	2009	2SC537FV	2009	2SC554	2020
2SC472F	2058	2SC494J	2041	2SC499L	2009	2SC509Y	2009	2SC536ED	2009	2SC537G	2009	2SC556	2058
2SC472G	2058	2SC494K	2041	2SC499M	2009	2SC516	2030	2SC536EH	2009	2SC537G1	2009	2SC560	2030

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2SC560A	2030	2SC564F	1617	2SC593	1617	2SC613E	2016	2SC622H	1617	2SC633R	2009	2SC644F	2016
2SC560B	2030	2SC564G	1617	2SC594	1617	2SC613F	2016	2SC622J	1617	2SC633X	2009	2SC644F(N)(S)	2016
2SC560C	2030	2SC564GN	1617	2SC594-O	1617	2SC613G	2016	2SC622K	1617	2SC633Y	2009	2SC644FH	2016
2SC560D	2030	2SC564H	1617	2SC594-R	1617	2SC613GN	2016	2SC622L	1617	2SC634	2009	2SC644FHS	2016
2SC560E	2030	2SC564J	1617	2SC594-Y	1617	2SC613H	2016	2SC622M	1617	2SC634(2)	2009	2SC644FR	2016
2SC560F	2030	2SC564K	1617	2SC594A	1617	2SC613J	2016	2SC622OR	1617	2SC634-O	2009	2SC644FS	2016
2SC560G	2030	2SC564L	1617	2SC594B	1617	2SC613K	2016	2SC622R	1617	2SC634-OR	2009	2SC644G	2016
2SC560GN	2030	2SC564M	1617	2SC594C	1617	2SC613L	2016	2SC622X	1617	2SC634-SP	2009	2SC644GN	2016
2SC560H	2030	2SC564OR	1617	2SC594D	1617	2SC613M	2016	2SC622Y	1617	2SC634-SP8	2009	2SC644H	2016
2SC560J	2030	2SC564P	1617	2SC594E	1617	2SC613OR	2016	2SC623	1617	2SC634A	2009	2SC644H(S)	2016
2SC560K	2030	2SC564PL	1617	2SC594F	1617	2SC613R	2016	2SC624	1617	2SC634AK	2009	2SC644J	2016
2SC560L	2030	2SC564Q	1617	2SC594G	1617	2SC613X	2016	2SC626	1617	2SC634AL	2009	2SC644K	2016
2SC560M	2030	2SC564QC	1617	2SC594GN	1617	2SC613Y	2016	2SC629	2058	2SC634AXL	2009	2SC644L	2016
2SC560OR	2030	2SC564R	1617	2SC594H	1617	2SC618	2016	2SC629-31	2058	2SC634B	2009	2SC644M	2016
2SC560R	2030	2SC564S	1617	2SC594J	1617	2SC618A	2016	2SC629-41	2058	2SC634C	2009	2SC644OR	2016
2SC560X	2030	2SC564T	1617	2SC594K	1617	2SC619	2009	2SC629A	2058	2SC634D	2009	2SC644P	2016
2SC560Y	2030	2SC564X	1617	2SC594L	1617	2SC619(B)	2009	2SC629B	2058	2SC634E	2009	2SC644PJ	2016
2SC561	2016	2SC564Y	1617	2SC594M	1617	2SC619(C)	2009	2SC629C	2058	2SC634F	2009	2SC644Q	2016
2SC561-OR	2016	2SC565	1617	2SC594OR	1617	2SC619A	2009	2SC629D	2058	2SC634G	2009	2SC644R	2016
2SC561A	2016	2SC569	1617	2SC594R	1617	2SC619B	2009	2SC629E	2058	2SC634GN	2009	2SC644S	2016
2SC561B	2016	2SC570	1617	2SC594X	1617	2SC619C	2009	2SC629F	2058	2SC634H	2009	2SC644T	2016
2SC561C	2016	2SC575	2030	2SC594Y	1617	2SC619D	2009	2SC629G	2058	2SC634J	2009	2SC644X	2016
2SC561D	2016	2SC576	1617	2SC595	1617	2SC619E	2009	2SC629GN	2058	2SC634K	2009	2SC644Y	2016
2SC561E	2016	2SC576E	2009	2SC595A	1617	2SC619F	2009	2SC629H	2058	2SC634L	2009	2SC645	2016
2SC561F	2016	2SC576F	2009	2SC595B	1617	2SC619G	2009	2SC629J	2058	2SC634M	2009	2SC645(B)	2016
2SC561G	2016	2SC576G	2009	2SC595C	1617	2SC619GN	2009	2SC629K	2058	2SC634OR	2009	2SC645-OR	2016
2SC561GN	2016	2SC577	1617	2SC595D	1617	2SC619H	2009	2SC629L	2058	2SC634R	2009	2SC645A	2016
2SC561H	2016	2SC580	2030	2SC595E	1617	2SC619J	2009	2SC629M	2058	2SC634SP	2009	2SC645B	2016
2SC561J	2016	2SC580A	2030	2SC595F	1617	2SC619K	2009	2SC629OR	2058	2SC634SP-8	2009	2SC645B-1	2016
2SC561K	2016	2SC580B	2030	2SC595G	1617	2SC619L	2009	2SC629R	2058	2SC634SP8	2009	2SC645C	2016
2SC561L	2016	2SC580C	2030	2SC595GN	1617	2SC619M	2009	2SC629X	2058	2SC634X	2009	2SC645D	2016
2SC561M	2016	2SC580D	2030	2SC595H	1617	2SC619OR	2009	2SC629Y	2058	2SC634Y	2009	2SC645E	2016
2SC561OR	2016	2SC580E	2030	2SC595J	1617	2SC619R	2009	2SC631	2009	2SC635	2009	2SC645F	2016
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2SC561Y	2016	2SC580GN	2030	2SC595M	1617	2SC620	2009	2SC631C	2009	2SC639	1617	2SC645GR	2016
2SC562	2016	2SC580H	2030	2SC595OR	1617	2SC620(C)	2009	2SC631D	2009	2SC641	2009	2SC645H	2016
2SC562(O)	2016	2SC580J	2030	2SC595X	1617	2SC620(D)	2009	2SC631E	2009	2SC641A	2009	2SC645J	2016
2SC562-OR	2016	2SC580K	2030	2SC595Y	1617	2SC620-D	2009	2SC631F	2009	2SC641B	2009	2SC645K	2016
2SC562A	2016	2SC580L	2030	2SC596	1617	2SC620-E	2009	2SC631G	2009	2SC641C	2009	2SC645L	2016
2SC562B	2016	2SC580M	2030	2SC596A	1617	2SC620-OR	2009	2SC631GN	2009	2SC641D	2009	2SC645M	2016
2SC562C	2016	2SC580OR	2030	2SC596B	1617	2SC620A	2009	2SC631H	2009	2SC641E	2009	2SC645N	2016
2SC562D	2016	2SC580R	2030	2SC596C	1617	2SC620B	2009	2SC631J	2009	2SC641F	2009	2SC645OR	2016
2SC562E	2016	2SC580T	2030	2SC596D	1617	2SC620C	2009	2SC631K	2009	2SC641G	2009	2SC645R	2016
2SC562F	2016	2SC580X	2030	2SC596E	1617	2SC620CD	2009	2SC631L	2009	2SC641GN	2009	2SC645SV	2016
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2SC562GN	2016	2SC581	2016	2SC596G	1617	2SC620DE	2009	2SC631OR	2009	2SC641J	2009	2SC645Y	2016
2SC562H	2016	2SC585	2020	2SC596GN	1617	2SC620E	2009	2SC631R	2009	2SC641K	2009	2SC647	2041
2SC562J	2016	2SC586	2041	2SC596H	1617	2SC620F	2009	2SC631X	2009	2SC641L	2009	2SC647Q	2041
2SC562K	2016	2SC587	1617	2SC596J	1617	2SC620G	2009	2SC631Y	2009	2SC641M	2009	2SC647R	2041
2SC562L	2016	2SC587A	1617	2SC596K	1617	2SC620GN	2009	2SC632	2009	2SC641OR	2009	2SC648	1617
2SC562M	2016	2SC587B	1617	2SC596L	1617	2SC620H	2009	2SC632(1)	2009	2SC641R	2009	2SC648A	1617
2SC562OR	2016	2SC587C	1617	2SC596M	1617	2SC620J	2009	2SC632-OR	2009	2SC641X	2009	2SC648B	1617
2SC562R	2016	2SC587D	1617	2SC596OR	1617	2SC620K	2009	2SC632A	2009	2SC641Y	2009	2SC648C	1617
2SC562X	2016	2SC587E	1617	2SC596R	1617	2SC620L	2009	2SC632B	2009	2SC642	2055	2SC648D	1617
2SC562Y	2016	2SC587F	1617	2SC596X	1617	2SC620M	2009	2SC632C	2009	2SC642A	2055	2SC648E	1617
2SC563	2016	2SC587G	1617	2SC596Y	1617	2SC620OR	2009	2SC632D	2009	2SC643	2055	2SC648F	1617
2SC563(A)	2016	2SC587GN	1617	2SC598	2017	2SC620R	2009	2SC632E	2009	2SC643-OR	2055	2SC648G	1617
2SC563-F	2016	2SC587H	1617	2SC599	2020	2SC620X	2009	2SC632F	2009	2SC643A	2055	2SC648H	1617
2SC563-G	2016	2SC587J	1617	2SC600	2020	2SC620Y	2009	2SC632G	2009	2SC643B	2055	2SC648J	1617
2SC563-OR	2016	2SC587K	1617	2SC602	2016	2SC621	2009	2SC632GN	2009	2SC643C	2055	2SC648K	1617
2SC563A	2016	2SC587L	1617	2SC604	2016	2SC621A	2009	2SC632H	2009	2SC643D	2055	2SC648L	1617
2SC563B	2016	2SC587M	1617	2SC607	2030	2SC621B	2009	2SC632J	2009	2SC643E	2055	2SC648M	1617
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2SC563D	2016	2SC587R	1617	2SC610A	2030	2SC621D	2009	2SC632L	2009	2SC643G	2055	2SC648R	1617
2SC563E	2016	2SC587X	1617	2SC610B	2030	2SC621E	2009	2SC632M	2009	2SC643GN	2055	2SC648X	1617
2SC563F	2016	2SC587Y	1617	2SC610C	2030	2SC621F	2009	2SC632OR	2009	2SC643H	2055	2SC648Y	1617
2SC563G	2016	2SC588	1617	2SC610D	2030	2SC621G	2009	2SC632R	2009	2SC643J	2055	2SC649	1617
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2SC563H	2016	2SC588B	1617	2SC610F	2030	2SC621H	2009	2SC632Y	2009	2SC643L	2055	2SC649B	1617
2SC563J	2016	2SC588C	1617	2SC610G	2030	2SC621J	2009	2SC633	2009	2SC643M	2055	2SC649C	1617
2SC563K	2016	2SC588D	1617	2SC610GN	2030	2SC621K	2009	2SC633-7	2009	2SC643OR	2055	2SC649D	2016
2SC563L	2016	2SC588E	1617	2SC610H	2030	2SC621L	2009	2SC633-OR	2009	2SC643R	2055	2SC649E	1617
2SC563M	2016	2SC588F	1617	2SC610J	2030	2SC621M	2009	2SC633A	2009	2SC643X	2055	2SC649F	1617
2SC563OR	2016	2SC588G	1617	2SC610K	2030	2SC621OR	2009	2SC633B	2009	2SC643Y	2055	2SC649G	1617
2SC563R	2016	2SC588GN	1617	2SC610L	2030	2SC621R	2009	2SC633C	2009	2SC644	2016	2SC649GN	1617
2SC563X	2016	2SC588H	1617	2SC610M	2030	2SC621X	2009	2SC633D	2009	2SC644(F)	2016	2SC649H	1617
2SC563Y	2016	2SC588J	1617	2SC610OR	2030	2SC621Y	2009	2SC633E	2009	2SC644(H)	2016	2SC649J	1617
2SC564	1617	2SC588K	1617	2SC610R	2030	2SC622	1617	2SC633F	2009	2SC644(R)	2016	2SC649K	1617
2SC564(Q)	2030	2SC588L	1617	2SC610X	2030	2SC622A	1617	2SC633G	2009	2SC644(R,S)	2016	2SC649L	1617
2SC564(Q)(R)	2030	2SC588M	1617	2SC610Y	2030	2SC622B	1617	2SC633GN	2009	2SC644(S)	2016	2SC649M	1617
2SC564A	1617	2SC588OR	1617	2SC612B	2016	2SC622C	1617	2SC633H	2009	2SC644-OR	2016	2SC649OR	1617
2SC564AP	1617	2SC588R	1617	2SC613	2016	2SC622D	1617	2SC633J	2009	2SC644A	2016	2SC649R	1617
2SC564B	1617	2SC588X	1617	2SC613A	2016	2SC622E	1617	2SC633K	2009	2SC644B	2016	2SC649X	1617
2SC564C	1617	2SC588Y	1617	2SC613B	2016	2SC622F	1617	2SC633L	2009	2SC644C	2016	2SC649Y	1617
2SC564D	1617	2SC590Y	2009	2SC613C	2016	2SC622G	1617	2SC633M	2009	2SC644D	2016	2SC650	2009
2SC564E	1617	2SC592	2017	2SC613D	2016	2SC622GN	1617	2SC633OR	2009	2SC644E	2016	2SC650-OR	2009

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2SC650-Y	2009	2SC659R	2016	2SC668G	2016	2SC684G	2016	2SC693GU	2016	2SC709CD	2009	2SC712E	2009
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2SC650B	2009	2SC659Y	2016	2SC668H	2016	2SC684H	2016	2SC693H	2016	2SC709E	2009	2SC712G	2009
2SC650C	2009	2SC660	2016	2SC668K	2016	2SC684J	2016	2SC693J	2016	2SC709F	2009	2SC712GN	2009
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2SC650H	2009	2SC662D	2016	2SC668X	2016	2SC684TM	2016	2SC693R	2016	2SC709M	2009	2SC712OR	2009
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2SC793H	2041
2SC793J	2041
2SC793K	2041
2SC793L	2041
2SC793M	2041

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC793GN	2041	2SC815E	2009	2SC828-OR	2009	2SC837L	2058	2SC848K	1617	2SC860C	2016	2SC875-2F	2030
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2SC794D	2041	2SC815L	2009	2SC828AR	2009	2SC838(A)	2009	2SC849A	1617	2SC860K	2016	2SC875D	2030
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2SC794J	2041	2SC815SA	2009	2SC828F	2009	2SC838(L)	2009	2SC849G	1617	2SC860Y	2016	2SC875GN	2030
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2SC899D	1617	2SC917D	2016	2SC923(E)	2016	2SC928	2016	2SC930M	2016	2SC936L	2055	2SC945A(C)T	2009
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2SC899R	1617	2SC917R	2016	2SC923H	2016	2SC928K	2016	2SC932BK	2017	2SC938D	2009	2SC945A-Q	2009
2SC899X	1617	2SC917X	2016	2SC923K	2016	2SC928L	2016	2SC932C	2017	2SC938E	2009	2SC945AQ	2009
2SC899Y	1617	2SC917Y	2016	2SC923L	2016	2SC928M	2016	2SC932D	2017	2SC938F	2009	2SC945AR	2009
2SC900	2016	2SC918	2058	2SC923M	2016	2SC928OR	2016	2SC932E	2017	2SC938G	2009	2SC945B	2009
2SC900(E)	2016	2SC918A	2058	2SC923OR	2016	2SC928R	2016	2SC932F	2017	2SC938GN	2009	2SC945C	2009
2SC900(E)(L)	2016	2SC918AL	2058	2SC923R	2016	2SC928X	2016	2SC932G	2017	2SC938H	2009	2SC945D	2009
2SC900(F)	2016	2SC918B	2058	2SC923X	2016	2SC928Y	2016	2SC932GN	2017	2SC938J	2009	2SC945E	2009
2SC900(U)	2016	2SC918C	2058	2SC923Y	2016	2SC929	2016	2SC932H	2017	2SC938K	2009	2SC945F	2009
2SC900-OR	2016	2SC918D	2058	2SC924	2016	2SC929(0)	2016	2SC932J	2017	2SC938L	2009	2SC945G	2009
2SC900A	2016	2SC918E	2058	2SC924A	2016	2SC929(E)	2016	2SC932K	2017	2SC938M	2009	2SC945GN	2009
2SC900AF	2016	2SC918F	2058	2SC924B	2016	2SC929-0	2016	2SC932L	2017	2SC938OR	2009	2SC945H	2009
2SC900B	2016	2SC918G	2058	2SC924C	2016	2SC929-O	2016	2SC932M	2017	2SC938R	2009	2SC945J	2009
2SC900C	2016	2SC918GN	2058	2SC924D	2016	2SC929A	2016	2SC932OR	2017	2SC938X	2009	2SC945K	2009
2SC900D	2016	2SC918H	2058	2SC924E	2016	2SC929B	2016	2SC932R	2017	2SC938Y	2009	2SC945L	2009
2SC900E	2016	2SC918J	2058	2SC924F	2016	2SC929C	2016	2SC932X	2017	2SC941	2009	2SC945LP	2009
2SC900F	2016	2SC918K	2058	2SC924G	2016	2SC929C1	2016	2SC932Y	2017	2SC941(O)	2009	2SC945LQ	2009
2SC900G	2016	2SC918L	2058	2SC924GN	2016	2SC929D	2016	2SC933	2009	2SC941(O)(R)	2009	2SC945M	2009
2SC900J	2016	2SC918LF	2058	2SC924H	2016	2SC929D1	2016	2SC933(O)	2009	2SC941(R)	2009	2SC945OR	2009
2SC900K	2016	2SC918M	2058	2SC924J	2016	2SC929DE	2016	2SC933(F)	2009	2SC941-04	2009	2SC945P	2009
2SC900L	2016	2SC918OR	2058	2SC924K	2016	2SC929DP	2016	2SC933(G)	2009	2SC941-0Y	2009	2SC945P1	2009
2SC900M	2016	2SC918R	2058	2SC924L	2016	2SC929DU	2016	2SC933A	2009	2SC941-O	2009	2SC945PJ	2009
2SC900OR	2016	2SC918X	2058	2SC924M	2016	2SC929DV	2016	2SC933B	2009	2SC941-R	2009	2SC945PQ	2009
2SC900R	2016	2SC918XL	2058	2SC924OR	2016	2SC929E	2016	2SC933BB	2009	2SC941-TM.O.JA	2009	2SC945Q	2009
2SC900S	2016	2SC918Y	2058	2SC924R	2016	2SC929ED	2016	2SC933C	2009	2SC941-Y	2009	2SC945QL	2009
2SC900SA	2016	2SC920	2058	2SC924X	2016	2SC929EZ	2016	2SC933D	2009	2SC941K	2009	2SC945OP	2009
2SC900SB	2016	2SC920-OO	2058	2SC924Y	2016	2SC929F	2016	2SC933D(F)	2009	2SC941O	2009	2SC945R	2009
2SC900SC	2016	2SC920-OR	2058	2SC925	2009	2SC929FK	2016	2SC933E	2009	2SC941R	2009	2SC945RA	2009
2SC900SD	2016	2SC920A	2058	2SC925(M)	2009	2SC929G	2016	2SC933E(F)	2009	2SC941TM	2009	2SC945S	2009
2SC900U	2016	2SC920B	2058	2SC925A	2009	2SC929GN	2016	2SC933F	2009	2SC941TM-O	2009	2SC945T	2009
2SC900UE	2016	2SC920C	2058	2SC925B	2009	2SC929H	2016	2SC933FB	2009	2SC941Y	2009	2SC945TK	2009
2SC900V	2016	2SC920CL	2058	2SC925C	2009	2SC929J	2016	2SC933FP	2009	2SC942	1617	2SC945TP	2009
2SC900VE	2016	2SC920D	2058	2SC925D	2009	2SC929K	2016	2SC933G	2009	2SC943	1617	2SC945TQ	2009
2SC900X	2016	2SC920E	2058	2SC925E	2009	2SC929L	2016	2SC933GN	2009	2SC943A	1617	2SC945X	2009
2SC900Y	2016	2SC920F	2058	2SC925F	2009	2SC929M	2016	2SC933H	2009	2SC943B	1617	2SC945Y	2009
2SC903	2009	2SC920G	2058	2SC925G	2009	2SC929NP	2016	2SC933J	2009	2SC943C	1617	2SC947	2016
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2SC906	1617	2SC920H	2058	2SC925H	2009	2SC929R	2016	2SC933L	2009	2SC943E	1617	2SC947B	2016
2SC906(F)	1617	2SC920L	2058	2SC925J	2009	2SC929SP	2016	2SC933M	2009	2SC943F	1617	2SC947C	2016
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2SC907AC	1617	2SC920R	2058	2SC925OR	2009	2SC930(C)	2016	2SC933Y	2009	2SC943J	1617	2SC947G	2016
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2SC907AH	1617	2SC920Y	2058	2SC925X	2009	2SC930(E)	2016	2SC934-O	1617	2SC943L	1617	2SC947H	2016
2SC907B	1617	2SC921	2016	2SC925Y	2009	2SC930(F)	2016	2SC934A	1617	2SC943M	1617	2SC947J	2016
2SC907C	1617	2SC921(L)	2016	2SC927	2016	2SC930-OR	2016	2SC934B	1617	2SC943OR	1617	2SC947K	2016
2SC907D	1617	2SC921(VNF)	2016	2SC927(C)	2016	2SC930A	2016	2SC934C	1617	2SC943R	1617	2SC947L	2016
2SC907E	1617	2SC921A	2016	2SC927(D)	2016	2SC930B	2016	2SC934D	1617	2SC943X	1617	2SC947M	2016
2SC907F	1617	2SC921B	2016	2SC927(E)	2016	2SC930BK	2016	2SC934E	1617	2SC943Y	1617	2SC947OR	2016
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2SC907J	1617	2SC921E	2016	2SC927C(K)	2016	2SC930CS	2016	2SC934J	1617	2SC945(K)	2009	2SC948A	2016
2SC907K	1617	2SC921F	2016	2SC927CJ	2016	2SC930D	2016	2SC934K	1617	2SC945(L)	2009	2SC948B	2016
2SC907L	1617	2SC921G	2016	2SC927CK	2016	2SC930DB	2016	2SC934L	1617	2SC945(L)Q	2009	2SC948D	2016
2SC907M	1617	2SC921GN	2016	2SC927CT	2016	2SC930DC	2016	2SC934M	1617	2SC945(P)	2009	2SC948BE	2016
2SC907OR	1617	2SC921H	2016	2SC927CU	2016	2SC930DE	2016	2SC934OR	1617	2SC945(Q)	2009	2SC948F	2016
2SC907R	1617	2SC921J	2016	2SC927CW	2016	2SC930DK	2016	2SC934Q	1617	2SC945(R)	2009	2SC948G	2016
2SC907X	1617	2SC921K	2016	2SC927D	2016	2SC930DS	2016	2SC934R	1617	2SC945(TK)	2009	2SC948GN	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC948H	2016	2SC967F	1617	2SC985A	2016	2SC1004L	2055	2SC1026Y	2016	2SC1045L	2055	2SC1061KB	2020
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2SC948L	2016	2SC967H	1617	2SC988	2016	2SC1004R	2055	2SC1030A	2041	2SC1045R	2055	2SC1061T	2020
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2SC948X	2016	2SC967M	1617	2SC993	1617	2SC1005A	2055	2SC1030D	2041	2SC1046-OR	2055	2SC1070-1	2016
2SC948Y	2016	2SC967OR	1617	2SC993D	1617	2SC1005B	2055	2SC1030E	2041	2SC1046A	2055	2SC1070-2	2016
2SC949	2016	2SC967R	1617	2SC993E	1617	2SC1005C	2055	2SC1030F	2041	2SC1046B	2055	2SC1070-B	2016
2SC950	1617	2SC967X	1617	2SC994	2009	2SC1005D	2055	2SC1030G	2041	2SC1046C	2055	2SC1071	1617
2SC951	2009	2SC967Y	1617	2SC997	2058	2SC1005E	2055	2SC1030H	2041	2SC1046D	2055	2SC1072	2030
2SC952	2009	2SC968	2009	2SC997A	2058	2SC1005F	2055	2SC1030J	2041	2SC1046E	2055	2SC1072A	2030
2SC953	1617	2SC968A	2009	2SC997B	2058	2SC1005G	2055	2SC1030K	2041	2SC1046F	2055	2SC1079	2041
2SC954	1617	2SC968B	2009	2SC997C	2058	2SC1005GN	2055	2SC1030L	2041	2SC1046G	2055	2SC1079-R	2041
2SC955	1617	2SC968C	2009	2SC997D	2058	2SC1005H	2055	2SC1030M	2041	2SC1046GN	2055	2SC1079-Y	2041
2SC956	1617	2SC968D	2009	2SC997E	2058	2SC1005J	2055	2SC1030OR	2041	2SC1046H	2055	2SC1080	2041
2SC957	2016	2SC968E	2009	2SC997F	2058	2SC1005K	2055	2SC1030R	2041	2SC1046J	2055	2SC1080-R	2041
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2SC957G	2016	2SC968M	2009	2SC997OR	2058	2SC1006A	2016	2SC1032C	2016	2SC1046Y	2055	2SC1098(4)L	2017
2SC957GN	2016	2SC968OR	2009	2SC997R	2058	2SC1006B	2016	2SC1032D	2016	2SC1047	2016	2SC1098(L)	2017
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2SC957X	2016	2SC972A	2030	2SC999E	2055	2SC1009F2	2058	2SC1032L	2016	2SC1047C	2016	2SC1098D	2017
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2SC959	2030	2SC972D	2030	2SC999GN	2055	2SC1009F5	2058	2SC1032R	2016	2SC1047F	2016	2SC1099	2055
2SC959A	2030	2SC972E	2030	2SC999H	2055	2SC1010	2016	2SC1032X	2016	2SC1047G	2016	2SC1099(K)	2055
2SC959B	2030	2SC972F	2030	2SC999J	2055	2SC1010A	2016	2SC1032Y	2016	2SC1047GN	2016	2SC1099K	2055
2SC959C	2030	2SC972G	2030	2SC999K	2055	2SC1010B	2016	2SC1035	2016	2SC1047GR	2016	2SC1100	2055
2SC959D	2030	2SC972GN	2030	2SC999L	2055	2SC1010C	2016	2SC1035A	2016	2SC1047H	2016	2SC1100A	2055
2SC959E	2030	2SC972H	2030	2SC999M	2055	2SC1019C	2020	2SC1035B	2016	2SC1047J	2016	2SC1100B	2055
2SC959F	2030	2SC972J	2030	2SC999OR	2055	2SC1023	2016	2SC1035C	2016	2SC1047K	2016	2SC1100C	2055
2SC959G	2030	2SC972K	2030	2SC999R	2055	2SC1023(0)	2016	2SC1035D	2016	2SC1047L	2016	2SC1100D	2055
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2SC959S	2030	2SC979	1617	2SC1000A	2016	2SC1023F	2016	2SC1035R	2009	2SC1054	2016	2SC1100M	2055
2SC959SA	2030	2SC979-O	1617	2SC1000B	2016	2SC1023G	2016	2SC1035X	2009	2SC1060	2020	2SC1100OR	2055
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2SC959SC	2030	2SC979-Y	1617	2SC1000C	2016	2SC1023H	2016	2SC1036	2016	2SC1060A	2020	2SC1100X	2055
2SC959SD	2030	2SC979A	1617	2SC1000D	2016	2SC1023J	2016	2SC1036A	2016	2SC1060B	2020	2SC1100Y	2055
2SC959X	2030	2SC979A-O	1617	2SC1000E	2016	2SC1023K	2016	2SC1036B	2016	2SC1060BL	2020	2SC1101	2055
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2SC966B	1617	2SC980G	2009	2SC1000GR	2016	2SC1026	2016	2SC1036H	2016	2SC1060G	2020	2SC1101G	2055
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2SC966GN	1617	2SC984B	2009	2SC1000OR	2016	2SC1026BL	2016	2SC1036R	2016	2SC1060M	2020	2SC1101M	2055
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC1395	2016	2SC1622A	2016	2SC1681GN	2016	2SC1729	1617	2SC1815G	2009	2SC1959Y	2009	2SC2110	2030
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2SC1419B	2020	2SC1636	2016	2SC1685(S)	2009	2SC1740SSS	2009	2SC1853C	2009	2SC2002M	2009	2SC2274-E	2009
2SC1419C	2020	2SC1636(22)	2016	2SC1685-O	2009	2SC1740ST-T3	2009	2SC1854	2009	2SC2003	2009	2SC2274-F	2009
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2SC1453	2016	2SC1647Q	2016	2SC1685-RS	2009	2SC1766B	2009	2SC1856M	2058	2SC2021LN	2016	2SC2308	2009
2SC1466	2055	2SC1647RY	2016	2SC1685-S	2009	2SC1769	2016	2SC1857	2009	2SC2021M	2016	2SC2308B	2009
2SC1467	2055	2SC1648	2016	2SC1685A(Q)	2009	2SC1770	2009	2SC1875	2055	2SC2021M(Q)	2016	2SC2308C	2009
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2SC1537	2016	2SC1648SH	2016	2SC1685C	2009	2SC1774	2009	2SC1875R	2055	2SC2021MLN	2016	2SC2309(F)	2016
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2SC1542	2016	2SC1653(R)	2016	2SC1685R	2009	2SC1788R	2009	2SC1906	2016	2SC2021Y	2016	2SC2352	2058
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2SC1622	2016	2SC1681G	2016	2SC1735	2009	2SC1815FA	2009	2SC1959GR	2009	2SC2188	2009	2SC2545D	2016

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2SC2545E	2016	2SC2839F	2009	2SC4033C	2058	2SCF5G	2009	2SCS429J	2016	2SD29OR	2020	2SD110-YEL	2041
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD154(L)	2020	2SD182Y	2041	2SD204GN	2030	2SD220Y	2030	2SD242YLC	2020	2SD314GN	2020	2SD343	2020
2SD154A	2020	2SD182	2030	2SD204H	2030	2SD221	2030	2SD243	2020	2SD314H	2020	2SD343A	2020
2SD154B	2020	2SD182A	2030	2SD204K	2030	2SD221Y	2030	2SD244	2020	2SD314L	2020	2SD343B	2020
2SD154C	2020	2SD182B	2030	2SD204L	2030	2SD228	2009	2SD256	2020	2SD314M	2020	2SD343C	2020
2SD154E	2020	2SD182C	2030	2SD204M	2030	2SD228F	2009	2SD257	2020	2SD314N	2020	2SD343D	2020
2SD154F	2020	2SD182D	2030	2SD204R	2030	2SD228G	2009	2SD258	2020	2SD314R	2020	2SD343H	2020
2SD154G	2020	2SD182E	2030	2SD204Y	2030	2SD228GN	2009	2SD259	2020	2SD314Y	2020	2SD343J	2020
2SD154GN	2020	2SD182F	2030	2SD205	2030	2SD228H	2009	2SD288	2020	2SD315	2020	2SD343K	2020
2SD154H	2020	2SD182G	2030	2SD205(L)	2030	2SD228J	2009	2SD288(O)	2020	2SD315C	2020	2SD344	2020
2SD154J	2020	2SD182GN	2030	2SD205(M)	2030	2SD228K	2009	2SD288A	2020	2SD315D	2020	2SD345	2020
2SD154K	2020	2SD182H	2030	2SD205A	2030	2SD228L	2009	2SD288B	2020	2SD315E	2020	2SD346	2020
2SD154L	2020	2SD182J	2030	2SD205B	2030	2SD228M	2009	2SD288C	2020	2SD316	2041	2SD347	2020
2SD154M	2020	2SD182K	2030	2SD205C	2030	2SD228OR	2009	2SD288K	2020	2SD316-1	2041	2SD348	2055
2SD154R	2020	2SD182L	2030	2SD205D	2030	2SD228R	2009	2SD288L	2020	2SD316-2	2041	2SD350	2055
2SD154X	2020	2SD182OR	2030	2SD205E	2030	2SD228X	2009	2SD289	2020	2SD317	2020	2SD350A	2055
2SD154Y	2020	2SD182R	2030	2SD205F	2030	2SD228Y	2009	2SD289A	2020	2SD317A	2020	2SD350Q	2055
2SD163	2041	2SD182X	2030	2SD205G	2030	2SD234	2020	2SD289B	2020	2SD317A(F)	2020	2SD350T	2055
2SD164	2041	2SD182Y	2030	2SD205GN	2030	2SD234(O)	2020	2SD289C	2020	2SD317A(F)(P)	2020	2SD356	2020
2SD172	2041	2SD183	2030	2SD205H	2030	2SD234-0	2020	2SD292	2020	2SD317A(P)	2020	2SD356E	2020
2SD172A	2041	2SD183B	2030	2SD205J	2030	2SD234-O	2020	2SD292-0	2020	2SD317AF	2020	2SD357	2020
2SD172B	2041	2SD183E	2030	2SD205L	2030	2SD234-ORG	2020	2SD292A	2020	2SD317AP	2020	2SD357E	2020
2SD172C	2041	2SD183GN	2030	2SD205M	2030	2SD234-R	2020	2SD292B	2020	2SD317F	2020	2SD358	2020
2SD172D	2041	2SD183K	2030	2SD205OR	2030	2SD234-RED	2020	2SD292BL	2020	2SD317P	2020	2SD358E	2020
2SD172E	2041	2SD183L	2030	2SD205R	2030	2SD234-Y	2020	2SD292C	2020	2SD318	2020	2SD359	2020
2SD172F	2041	2SD183OR	2030	2SD205X	2030	2SD234-YEL	2020	2SD292D	2020	2SD318-O	2020	2SD359C	2020
2SD172G	2041	2SD183R	2030	2SD205Y	2030	2SD234A	2020	2SD292E	2020	2SD318A	2020	2SD359C2	2020
2SD172GN	2041	2SD184	2020	2SD207	2041	2SD234B	2020	2SD292F	2020	2SD318B	2020	2SD359D	2020
2SD172H	2041	2SD184A	2020	2SD207A	2041	2SD234C	2020	2SD292G	2020	2SD318P	2020	2SD359D1	2020
2SD172J	2041	2SD184B	2020	2SD211	2041	2SD234D	2020	2SD292GA	2020	2SD318Q	2020	2SD359D2	2020
2SD172K	2041	2SD184C	2020	2SD211-OR	2041	2SD234E	2020	2SD292GN	2020	2SD322	2041	2SD360	2020
2SD172L	2041	2SD184D	2020	2SD211A	2041	2SD234F	2020	2SD292H	2020	2SD322A	2041	2SD360D	2020
2SD172M	2041	2SD184E	2020	2SD211B	2041	2SD234G	2020	2SD292J	2020	2SD322B	2041	2SD360E	2020
2SD172OR	2041	2SD184F	2020	2SD211C	2041	2SD234GA	2020	2SD292K	2020	2SD322C	2041	2SD361	2020
2SD172R	2041	2SD184H	2020	2SD211D	2041	2SD234GN	2020	2SD292L	2020	2SD323	2041	2SD361C	2020
2SD172X	2041	2SD184J	2020	2SD211E	2041	2SD234G-O	2020	2SD292M	2020	2SD323A	2041	2SD361D	2020
2SD172Y	2041	2SD184K	2020	2SD211F	2041	2SD234G-R	2020	2SD292OR	2020	2SD323B	2041	2SD365	2020
2SD174	2041	2SD184L	2020	2SD211G	2041	2SD234GR	2020	2SD292R	2020	2SD323C	2041	2SD365A	2020
2SD174A	2041	2SD184M	2020	2SD211GN	2041	2SD234G-Y	2020	2SD292X	2020	2SD325	2017	2SD365B	2020
2SD174B	2041	2SD184OR	2020	2SD211H	2041	2SD234H	2020	2SD292Y	2020	2SD325-1	2017	2SD365H	2020
2SD174C	2041	2SD184Y	2020	2SD211J	2041	2SD234J	2020	2SD312	2055	2SD325-OR	2017	2SD365P	2020
2SD174D	2041	2SD185	2020	2SD211K	2041	2SD234K	2020	2SD312A	2055	2SD325A	2017	2SD366	2020
2SD174E	2041	2SD186	2041	2SD211L	2041	2SD234L	2020	2SD312B	2055	2SD325B	2017	2SD366A	2020
2SD174F	2041	2SD186A	2041	2SD211M	2041	2SD234M	2020	2SD312C	2055	2SD325C	2017	2SD368	2020
2SD174G	2041	2SD188	2041	2SD211OR	2041	2SD234N	2020	2SD312D	2055	2SD325D	2017	2SD370	2041
2SD174GN	2041	2SD188C	2041	2SD211R	2041	2SD234O	2020	2SD312E	2055	2SD325E	2017	2SD379	2041
2SD174H	2041	2SD188D	2041	2SD211X	2041	2SD234OR	2020	2SD312F	2055	2SD325F	2017	2SD380	2055
2SD174J	2041	2SD188E	2041	2SD211Y	2041	2SD234R	2020	2SD312G	2055	2SD325G	2017	2SD380A	2055
2SD174K	2041	2SD188F	2041	2SD212	2041	2SD234X	2020	2SD312GN	2055	2SD325GN	2017	2SD381	2020
2SD174L	2041	2SD188G	2041	2SD213	2041	2SD234Y	2020	2SD312H	2055	2SD325H	2017	2SD381K	2020
2SD174M	2041	2SD188GN	2041	2SD214	2041	2SD235	2020	2SD312J	2055	2SD325J	2017	2SD381L	2020
2SD174R	2041	2SD188H	2041	2SD215	2030	2SD235(O)	2020	2SD312K	2055	2SD325K	2017	2SD382	2020
2SD174X	2041	2SD188J	2041	2SD216	2030	2SD235(R)	2020	2SD312L	2055	2SD325L	2017	2SD383	2055
2SD174Y	2041	2SD188L	2041	2SD219	2030	2SD235(Y)	2020	2SD312M	2055	2SD325M	2017	2SD388	2020
2SD175	2041	2SD188M	2041	2SD219A	2030	2SD235-0	2020	2SD312X	2055	2SD325OR	2017	2SD389(LP)	2020
2SD175A	2041	2SD188OR	2041	2SD219B	2030	2SD235-O	2020	2SD312Y	2055	2SD325R	2017	2SD389(O)	2020
2SD175B	2041	2SD188R	2041	2SD219C	2030	2SD235-OR	2020	2SD313	2020	2SD325X	2017	2SD389(O,LP,P)	2020
2SD175C	2041	2SD188X	2041	2SD219D	2030	2SD235-ORG	2020	2SD313(D)	2020	2SD325Y	2017	2SD389(P)	2020
2SD175D	2041	2SD188Y	2041	2SD219E	2030	2SD235-R	2020	2SD313(D,E)	2020	2SD327	2009	2SD389-0	2020
2SD175E	2041	2SD189	2041	2SD219F	2030	2SD235-RED	2020	2SD313(DE)	2020	2SD327-V	2009	2SD389-O	2020
2SD175F	2041	2SD189A	2041	2SD219G	2030	2SD235-Y	2020	2SD313(E)	2020	2SD327A	2009	2SD389A	2020
2SD175G	2041	2SD189B	2041	2SD219GN	2030	2SD235-YEL	2020	2SD313(F)	2020	2SD327B	2009	2SD389AF	2020
2SD175GN	2041	2SD189C	2041	2SD219H	2030	2SD235-Y-JA	2020	2SD313A	2020	2SD327C	2009	2SD389AFC	2020
2SD175H	2041	2SD189D	2041	2SD219J	2030	2SD235A	2020	2SD313B	2020	2SD327D	2009	2SD389AFO	2020
2SD175J	2041	2SD189E	2041	2SD219K	2030	2SD235B	2020	2SD313C	2020	2SD327E	2009	2SD389AFP	2020
2SD175K	2041	2SD189F	2041	2SD219L	2030	2SD235C	2020	2SD313D	2020	2SD327F	2009	2SD389AO	2020
2SD175L	2041	2SD189G	2041	2SD219M	2030	2SD235D	2020	2SD313DE	2020	2SD327L	2009	2SD389AP	2020
2SD175M	2041	2SD189GN	2041	2SD219OR	2030	2SD235E	2020	2SD313E	2020	2SD327OR	2009	2SD389AQ	2020
2SD175OR	2041	2SD189H	2041	2SD219R	2030	2SD235F	2020	2SD313F	2020	2SD327R	2009	2SD389BLB	2020
2SD175R	2041	2SD189J	2041	2SD219X	2030	2SD235G	2020	2SD313G	2020	2SD328	2030	2SD389BLB-O	2020
2SD175X	2041	2SD189K	2041	2SD219Y	2030	2SD235GN	2020	2SD313GN	2020	2SD328S	2030	2SD389BLB-P	2020
2SD175Y	2041	2SD189M	2041	2SD220	2030	2SD235G-O	2020	2SD313H	2020	2SD330	2030	2SD389BLP	2020
2SD180	2041	2SD189OR	2041	2SD220A	2030	2SD235G-R	2020	2SD313HP	2020	2SD330(E)	2030	2SD389L	2020
2SD180A	2041	2SD189R	2041	2SD220B	2030	2SD235G-Y	2020	2SD313L	2020	2SD330D	2030	2SD389LB	2020
2SD180B	2041	2SD189X	2041	2SD220C	2030	2SD235H	2020	2SD313M	2020	2SD330E	2030	2SD389LAP	2020
2SD180C	2041	2SD189Y	2041	2SD220D	2030	2SD235J	2020	2SD313N	2020	2SD331	2030	2SD389LP	2020
2SD180D	2041	2SD199	2055	2SD220E	2030	2SD235L	2020	2SD313R	2020	2SD334	2041	2SD389P	2020
2SD180F	2041	2SD204	2030	2SD220F	2030	2SD235LBY	2020	2SD313RA	2020	2SD334A	2041	2SD389Q	2020
2SD180G	2041	2SD204(L)	2030	2SD220G	2030	2SD235M	2020	2SD313RA(D)	2020	2SD334R	2041	2SD389R	2020
2SD180GN	2041	2SD204A	2030	2SD220GN	2030	2SD235O	2020	2SD313RA(E)	2020	2SD339	2041	2SD390	2020
2SD180H	2041	2SD204B	2030	2SD220H	2030	2SD235OR	2020	2SD313RA(F)	2020	2SD339-1	2041	2SD390A	2020
2SD180J	2041	2SD204BL	2030	2SD220J	2030	2SD235R	2020	2SD313Y	2020	2SD339-2	2041	2SD390P	2020
2SD180K	2041	2SD204C	2030	2SD220K	2030	2SD235RED	2020	2SD314	2020	2SD340	2041	2SD390Q	2020
2SD180L	2041	2SD204D	2030	2SD220L	2030	2SD235RY	2020	2SD314A	2020	2SD340-1	2041	2SD391	2009
2SD180M	2041	2SD204E	2030	2SD220M	2030	2SD235X	2020	2SD314B	2020	2SD340-2	2041	2SD394	2055
2SD180OR	2041	2SD204F	2030	2SD220OR	2030	2SD235Y	2020	2SD314C	2020	2SD341	2041	2SD404	2020
2SD180R	2041	2SD204G	2030	2SD220R	2030	2SD241	2020	2SD314D	2020	2SD341H	2041	2SD404G	2020
2SD180X	2041	2SD204GA	2030	2SD220X	2030	2SD242	2020	2SD314E	2020	2SD342	2055	2SD405	2041

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SD409	2068	2SD636-Q.R	2009	2SD704E	2020	2SD864K	2068	2SD1276B	2068	2SK17R	2035	2SK43C	2035
2SD41[illegible]	[illegible]	2SD636-R	2009	2SD721	2068	2SD866	2020	2SD1276LB	2068	2SK17Y	2035	2SK43D	2035
2SD41[illegible]	[illegible]	2SD636-R.S.T	2009	2SD723	2020	2SD866(P)	2020	2SD1276P	2068	2SK19	2035	2SK43E	2035
2SD419	2068	2SD636-S	2009	2SD725	2055	2SD866(Q)	2020	2SD1276PLB	2068	2SK19(BL)	2035	2SK43F	2035
2SD425	2041	2SD636P	2009	2SD725-06	2055	2SD866A	2020	2SD1277	2068	2SK19(GN)	2035	2SK43H	2035
2SD425-O	2041	2SD636Q	2009	2SD726	2020	2SD866B	2020	2SD1277B	2068	2SK19(GR)	2035	2SK43J	2035
2SD425-R	2041	2SD636QR	2009	2SD734	2009	2SD866D	2020	2SD1277BP	2068	2SK19-14	2035	2SK43K	2035
2SD426	2041	2SD636QRS	2009	2SD734(F)	2009	2SD866P	2020	2SD1279	2055	2SK19-BL	2035	2SK43L	2035
2SD426-O	2041	2SD636R	2009	2SD734(G)	2009	2SD866Q	2020	2SD1279FA	2055	2SK19-GR	2035	2SK43M	2035
2SD426-R	2041	2SD636RS	2009	2SD734-NP	2009	2SD866R	2020	2SD1318	2030	2SK19-Y	2035	2SK43OR	2035
2SD427	2041	2SD636S	2009	2SD734E	2009	2SD867	2041	2SD1345	2020	2SK19A	2035	2SK43R	2035
2SD427-O	2041	2SD636T	2009	2SD734F	2009	2SD878	2041	2SD1363-Y	2020	2SK19B	2035	2SK43S	2035
2SD427-R	2041	2SD637	2016	2SD734G	2009	2SD880	2020	2SD1406	2020	2SK19BB	2035	2SK43X	2035
2SD4[illegible]0	[illegible]	2SD637(C)	2016	2SD743	2020	2SD880-O	2020	2SD1406-Y	2020	2SK19BL	2035	2SK43Y	2035
2SD467	[illegible]	2SD637(CR)	2016	2SD743A	2020	2SD880-OLBGL2	2020	2SD1406GR	2020	2SK19FET	2035	2SK44	2035
2SD467-C	2009	2SD637(Q)	2016	2SD743R	2020	2SD880-Y	2020	2SD1406Y	2020	2SK19GB	2035	2SK44C	2035
2SD467B	2009	2SD637(R)	2016	2SD762	2020	2SD880GR	2020	2SD1510	2068	2SK19GE	2035	2SK44D	2035
2SD467BC	2009	2SD637(S)	2016	2SD762-O	2020	2SD880Y	2020	2SD1558	2068	2SK19GR	2035	2SK47	2062
2SD467C	2009	2SD637(T)	2016	2SD762-OP	2020	2SD880YLBGL2	2020	2SD1894	2055	2SK19H	2035	2SK49	2035
2SD469	2041	2SD637-O	2016	2SD762-P	2020	2SD886	2020	2SD2340	2020	2SK19K	2035	2SK49E2	2035
2SD474K	2016	2SD637-P	2016	2SD762OP	2020	2SD886A	2020	2SD2350	2020	2SK19V	2035	2SK49F	2035
2SD475	2020	2SD637-PQR	2016	2SD762OPLB	2020	2SD886F	2020	2SDU84GN	2030	2SK19Y	2035	2SK49H	2035
2SD475A	2020	2SD637-Q	2016	2SD762P	2020	2SD886P	2020	2SE629	2016	2SK22Y	2035	2SK49H1	2035
2SD476	2020	2SD637-QR	2016	2SD762Q	2020	2SD886Q	2020	2SF4002	2016	2SK23	2035	2SK49H2	2035
2SD476A	2020	2SD637-QRS	2016	2SD767(R)	2009	2SD889	2016	2SF41F	2035	2SK23A	2035	2SK49I	2035
2SD476ANB	2020	2SD637-R	2016	2SD767(S)	2009	2SD889Q	2016	2SF101	1067	2SK23A(812)	2035	2SK49M	2035
2SD476ANC	2020	2SD637-RS	2016	2SD767R	2009	2SD889R	2016	2SF101B	1067	2SK24	2035	2SK54	2035
2SD476B	2020	2SD637-S	2016	2SD767S	2009	2SD889T	2016	2SF102	1067	2SK24C	2035	2SK54B	2035
2SD476C	2020	2SD637C	2016	2SD778	2009	2SD918	2020	2SF102A	1067	2SK24D	2035	2SK54C	2035
2SD476D	2020	2SD637CR	2016	2SD778Q	2009	2SD919	2009	2SF102B	1067	2SK24DR	2035	2SK55	2035
2SD476G	2020	2SD637O	2016	2SD778R	2009	2SD959LB	2020	2SF103	1067	2SK24E	2035	2SK55C	2035
2SD476KB	2020	2SD637P	2016	2SD783	2055	2SD959Q	2020	2SF104	1067	2SK24F	2035	2SK55CD	2035
2SD476KC	2020	2SD637PQ	2016	2SD792	2055	2SD960	2020	2SF104A	1067	2SK24G	2035	2SK55D	2035
2SD476O	2020	2SD637PQR	2016	2SD792S	2055	2SD969	2030	2SF104B	1067	2SK25	2035	2SK55DE	2035
2SD476YL	2020	2SD637PR	2016	2SD792T	2055	2SD1010	2016	2SF105	1020	2SK25C	2035	2SK55R	2035
2SD477	2020	2SD637Q	2016	2SD804	2020	2SD1010S	2016	2SF106	1020	2SK25D	2035	2SK61	2035
2SD492	2041	2SD637QR	2016	2SD804H	2020	2SD1012	2009	2SF106A	1020	2SK25E	2035	2SK61(Y)	2035
2SD517	2055	2SD637QRS	2016	2SD804HLB	2020	2SD1012F	2009	2SF106B	1020	2SK25ET	2035	2SK61GR	2035
2SD522	2041	2SD637R	2016	2SD804HP	2020	2SD1012G1	2009	2SF108	1020	2SK25F	2035	2SK61Y	2035
2SD525	2020	2SD637RS	2016	2SD807	2055	2SD1022	2068	2SF108A	1020	2SK25G	2035	2SK68	2035
2SD525-O	2020	2SD637RST	2016	2SD807M	2055	2SD1024	2068	2SF108B	1020	2SK31(C)	2035	2SK68-L	2035
2SD525-Y	2020	2SD637S	2016	2SD820	2055	2SD1044A	2068	2SF229	1067	2SK31C	2035	2SK68-M	2035
2SD525P	2020	2SD637ST	2016	2SD820FA-1	2055	2SD1060K	2041	2SF248T	2020	2SK32	2035	2SK68A	2035
2SD525Y	2020	2SD637T	2016	2SD821	2055	2SD1061	2020	2SF357	1067	2SK32B	2035	2SK68A(L)	2035
2SD526	2020	2SD638	2030	2SD822	2055	2SD1098-42M	2017	2SF521	1067	2SK33	2035	2SK68A(M)	2035
2SD526(O)	2020	2SD638(Q)	2030	2SD822P	2055	2SD1131B	2020	2SF522	1067	2SK33D	2035	2SK68AL	2035
2SD526-O	2020	2SD638(R)	2030	2SD822Q	2055	2SD1131C	2020	2SF523	1067	2SK33E	2035	2SK68A-M	2035
2SD531	2020	2SD638(S)	2030	2SD836	2068	2SD1131D	2020	2SF524	1020	2SK33F	2035	2SK68AM	2035
2SD544	2020	2SD638-R	2030	2SD836A	2068	2SD1132B	2020	2SF525	1020	2SK33H	2035	2SK68L	2035
2SD560	2068	2SD638-RS	2030	2SD836Q	2068	2SD1132C	2020	2SF656	1067	2SK35	2035	2SK68M	2035
2SD56[illegible](K)	2030	2SD638-S	2009	2SD836R	2068	2SD1132D	2020	2SF656ZS	1067	2SK35-0	2035	2SK68Q	2035
2SD570	2020	2SD638P	2030	2SD837	2068	2SD1133B	2020	2SF657	1067	2SK35-1	2035	2SK83	2035
2SD575	2055	2SD638Q	2030	2SD837A	2068	2SD1133C	2020	2SF658	1067	2SK35-2	2035	2SK104	2035
2SD575L	2055	2SD638QR	2030	2SD837AB	2068	2SD1133D	2020	2SF664	1067	2SK35A	2035	2SK104E	2035
2SD577	2055	2SD638QRS	2030	2SD837AD	2068	2SD1134	2020	2SF664S	1067	2SK35BL	2035	2SK104F	2035
2SD581	2041	2SD638R	2030	2SD837AQ	2068	2SD1134-C	2020	2SF674S	1067	2SK35C	2035	2SK104H	2035
2SD581A	2041	2SD638RS	2030	2SD837AR	2068	2SD1134C	2020	2SF676S	1067	2SK35GN	2035	2SK106	2035
2SD582	2041	2SD638S	2030	2SD837B	2068	2SD1135	2020	2SF941	1067	2SK35R	2035	2SK107	2035
2SD582A	2041	2SD639	2030	2SD837LB	2068	2SD1186	2055	2SF942	1067	2SK35Y	2035	2SK107-1	2035
2SD589	2055	2SD639(Q)	2030	2SD837O	2068	2SD1199-R	2016	2SF1110	1067	2SK37	2035	2SK107-2	2035
2SD590	2030	2SD639(R)	2030	2SD837P	2068	2SD1206(Q)	2016	2SF1111	1067	2SK37(K)	2035	2SK107-4	2035
2SD591	2016	2SD639(S)	2030	2SD837Q	2068	2SD1206(R)	2016	2SF1112	1067	2SK37H	2035	2SK119	2035
2SD591R	2016	2SD639P	2030	2SD837R	2068	2SD1206(S)	2016	2SF1113	1020	2SK40	2035	2SK120	2062
2SD592	2009	2SD639Q	2030	2SD843	2020	2SD1206Q	2016	2SF1114	1020	2SK40(C)	2035	2SK152	2035
2SD592ANC	2009	2SD639QR	2030	2SD843(Y)	2020	2SD1206R	2016	2SFD111	1123	2SK40-3	2035	2SK152-1	2035
2SD592NC	2009	2SD639R	2030	2SD849	2055	2SD1228M	2009	2SG536GN	1617	2SK40A	2035	2SK152-2	2035
2SD592R	2009	2SD639S	2030	2SD856	2020	2SD1265-0	2016	2SJ2A	1104	2SK40B	2035	2SK152-3	2035
2SD599	2016	2SD639T	2030	2SD856(P)	2020	2SD1266	2020	2SJ4A	1104	2SK40C	2035	2SK152LA	2035
2SD603	2009	2SD649	2055	2SD856(Q)	2020	2SD1266(P)	2020	2SJ8A	1114	2SK40D	2035	2SK168D	2035
2SD613	2020	2SD649Q	2055	2SD856(R)	2020	2SD1266(Q)	2020	2SJ11	2035	2SK41	2035	2SK168F	2035
2SD613(D)	2020	2SD654	2030	2SD856A	2020	2SD1266(R)	2020	2SJ12	2035	2SK41C	2035	2SK170	2035
2SD613(E)	2020	2SD661	2016	2SD856B	2020	2SD1266-PQ	2020	2SJ60A	1104	2SK41D	2035	2SK170V	2035
2SD613E	2020	2SD661(R)	2016	2SD856L	2020	2SD1266LB(P)	2020	2SK2SET	2035	2SK41E	2035	2SK192	2035
2SD613P	2020	2SD661(S)	2016	2SD856LB	2020	2SD1266LB(Q)	2020	2SK11	2035	2SK41E1	2035	2SK194	2035
2SD633	2068	2SD661(T)	2016	2SD856M	2020	2SD1266LBPQ	2020	2SK12	2035	2SK41F	2035	2SK195H	2062
2SD634	2068	2SD661-R	2016	2SD856M(LB)	2020	2SD1266P	2020	2SK13	2035	2SK42	2035	2SK196R	2035
2SD635	2068	2SD661RS	2016	2SD856MLB	2020	2SD1266PQ	2020	2SK15	2035	2SK42-CM1	2035	2SK197	2035
2SD636	2009	2SD661S	2016	2SD856O	2020	2SD1266PQR	2020	2SK16HA	2035	2SK42-CMI	2035	2SK197YC	2035
2SD636(Q)	2009	2SD661ST	2016	2SD8S6P	2020	2SD1266Q	2020	2SK17	2035	2SK43	2035	2SK197YD	2035
2SD636(R)	2009	2SD661T	2016	2SD856PQR	2020	2SD1276	2068	2SK17(O)	2035	2SK43(03)	2035	2SK197YE	2035
2SD636(R S.T)	2009	2SD664	2068	2SD856Q	2020	2SD1276(LB)	2068	2SK17-0	2035	2SK43(2)	2035	2SK212	2062
2SD636(S)	2009	2SD671	2009	2SD856Q(LB)	2020	2SD1276-AP	2068	2SK17-OR	2035	2SK43(3A)	2035	2SK212A	2062
2SD636(T)	2009	2SD686	2068	2SD856R	2020	2SD1276-LB	2068	2SK17A	2035	2SK43-3	2035	2SK212AF	2062
2SD636-0	2009	2SD687	2068	2SD856S	2020	2SD1276A	2068	2SK17B	2035	2SK43-4	2035	2SK212E	2062
2SD636-O	2009	2SD691	2068	2SD857	2020	2SD1276A(LB)P	2068	2SK17BL	2035	2SK43-O[illegible]	2035	2SK304	2035
2SD636-Q	2009	2SD704	2020	2SD857A	2020	2SD1276A(LP)	2068	2SK17GR	2035	2SK43A	2035	2SK1033B	2035
2SD636-QRS	2009	2SD704D	2020	2SD857B	2020	2SD1276AP	2068	2SK17O	2035	2SK43B	2035	2SK1521A	2035

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2SM610B	2023	3A700	1114	3L4-3003-4	1123	3N118	2023	4-443	2016	4-686149-3	1104	4H1304-1025	2059
2SN733	2009	3A700FS	1114	3L4-3003-7	1123	3N119	2023	4-850	2016	4-686169-3	2016	4H1304-4104	2023
2SN3841	2023	3A800	1114	3L4-3001-1	1122	3N120	2016	4-851	1617	4-686171-3	2016	4H1304-4121	2009
2SO12	2030	3A800FS	1114	3L4-3001-5	1104	3N121	2016	4-852	1123	4-686172-3	2016	4H1304-4154	[illegible]
2SO14	2016	3A900	1114	3L4-3001-7	1122	3N123	2023	4-853	1123	4-686173-3	1617	4H1304-4196	2009
2SO33	2041	3A900FS	1114	3L4-3001-8	1104	3N127	2016	4-854	1123	4-686179-3	1114	4H1304-4358	2023
2SO34	2041	3A1000	1114	3L4-3002-7	1122	3N129	2023	4-855	1123	4-686182-3	2030	4H13030621	1122
2SO35	2041	3A1000FS	1114	3L4-3002-10	1122	3N130	2023	4-857	1123	4-686183-3	1617	4H13030847	1122
2SO36	2041	3A1510	1114	3L4-3002-13	1103	3N131	2023	4-882	1123	4-686184-3	1114	4H13030862	562
2SO95A	2009	3A2510	1114	3L4-3002-20	1122	3N132	2023	4-1544	2016	4-686186-3	1114	4H13030983	1122
2SP405	2030	3AF2	1114	3L4-3002-25	1122	3N133	2023	4-1545	1617	4-686189-3	1114	4H13030984	1123
2SQ371	2016	3AF4	1144	3L4-3002-30	1104	3N134	2023	4-1724	1122	4-686199-3	1114	4H13031168	1114
2SR05K	1104	3AS1	1104	3L4-3002-31	1122	3N135	2023	4-1726	1122	4-686201-3	1114	4H13031173	1114
2SR1K	1104	3AS2	1104	3L4-3002-32	1122	3N136	2023	4-1790	1617	4-686207-3	2016	4H13031174	1102
2SR34	2035	3BB-20801	1171	3L4-3002-33	1122	3N246	1171	4-1791	2016	4-686208-3	2016	4H13034167	561
2SR54	2030	3BB-20801	1104	3L4-3506-29	564	3N247	1171	4-1807	1104	4-686209-3	2016	4H13040938	2009
2SR68AM	2035	3BH61	1114	3L4-3506-31	565	3N249	1173	4-2020	1123	4-686212-3	1114	4H13040938(,BC548B)	
2SR173	2030	3BS1	1104	3L4-5007-3	2016	3N253	1171	4-2020-03173	1104	4-686224-3	2016		2009
2T15X3	2016	3BS2	1104	3L4-6001-01	2041	3N256	1173	4-2020-03200	1104	4-686228-3	2016	4H13040941	2023
2T40	2009	3BZ-61	1114	3L4-6007-2	1617	3NZ61	1114	4-2020-03500	1123	4-686231-3	1617	4H13040995	2027
2T41	2009	3BZ61	1114	3L4-6007-3	2016	3P1MH	1067	4-2020-03571	1123	4-686234-3	2020	4H13044196	2009
2T42	2009	3C6030	1067	3L4-6007-10	2016	3P2MH	1020	4-2020-03900	1114	4-686244-3	2016	4H13044197	2023
2T43	2009	3C6100	1067	3L4-6007-11	2016	3P4MH	1020	4-2020-05200	1104	4-686251-3	2016	4H13044356	2023
2T44	2009	3CS1	1104	3L4-6007-12	2016	3RC25	1020	4-2020-05600	1123	4-686257-3	1617	4H13044503	2009
2T172	2009	3CS2	1104	3L4-6007-13	2016	3RC30	1020	4-2020-05800	1122	4-3022861	2016	4129206602	1123
2T202	2009	3DD10	1114	3L4-6007-14	2016	3RC30A	1020	4-2020-06100	1122	4-3023212	1617	4J24X539	563
2T402	1617	3DH61	1114	3L4-6007-15	2016	3RL30A	1020	4-2020-06200	1122	4-3023221	1617	4JA2FX355	1104
2T403	2009	3DL2	1104	3L4-6007-20	2016	3S004	1617	4-2020-06400	1122	4-3023223	2030	4JA2X355	1104
2T404	2009	3DL4C	1104	3L4-6007-21	2016	3S05E	1141	4-2020-06800	1104	4-3023843	2041	4JA4DR700	1104
2T501	1104	3DS1	1104	3L4-6007-22	2016	3S1E	1143	4-2020-07300	1104	4-3023844	2030	4JA4DX520	1104
2T502	1104	3DS2	1104	3L4-6007-23	2016	3S2E	1143	4-2020-07500	561	4-3025763	2016	4JA6MR700	1104
2T503	1104	3DS3	1114	3L4-6007-34	2023	3S3E	1144	4-2020-07600	1104	4-3025764	2016	4JA10DX3	1104
2T504	1104	3DZ61	1114	3L4-6007-35	2016	3S4E	1144	4-2020-07601	1104	4-3025765	2016	4JA10DX32	1104
2T505	1104	3E05	1141	3L4-6007-41	2058	3S4M	1020	4-2020-07700	1104	4-3025766	1617	4JA10EX3	1104
2T506	1104	3E-1	1617	3L4-6007-51	2016	3S4M//LB	1020	4-2020-08001	1122	4-3025767	2016	4JA16MR700M	1114
2T507	1114	3E-2	1617	3L4-6010-1	2020	3S4M//LB1E	1020	4-2020-08200	1122	4-3540012	1104	4JA211A	1104
2T508	1114	3E2	1143	3L4-6010-3	2009	3S4M/LB1E	1020	4-2020-08500	1104	4-202003571	1123	4JX1E596	1617
2T509	1114	3E-3	1617	3L4-6010-6	2030	3S30B	2035	4-2020-08600	1123	4-202104170	1104	4JX7A972	1617
2T510	1114	3E-4	1123	3L4-6011-1	2020	3S105	1114	4-2020-08900	1104	4-202104970	1122	4JX11C2848	2030
2T918	2009	3E-64	1104	3L4-6011-9	2027	3SB629	1104	4-2020-10100	1122	4-2020035000	1123	4JX16A567	1617
2T919	2016	3E-65	1104	3L4-6011-11	2027	3SK23	2035	4-2020-10500	1104	4-AAZ10	1123	4JX16A667	1617
2T2708	2009	3E51	1104	3L4-6011-12	2027	3SK30	2035	4-2020-12400	563	4AJ4DX52D	1104	4JX16A667/G	2009
2T2785	2009	3E52	1104	3L4-6011-14	2027	3SK30A	2035	4-2020-14500	1104	4AJ4DX520	1104	4JX16A667/O	2009
2T2857	2009	3F30(SCR)	1067	3L4-6012-2	2020	3SK30B	2035	4-2020-15600	1122	4C28	2030	4JX16A667/R	2009
2U4	1104	3F60(SCR)	1067	3L4-6012-3	2020	3SK30C	2035	4-2021-04170	1171	4C29	2030	4JX16A667/Y	2009
2U8	1104	3F100(SCR)	1067	3L4-6012-5	2020	3SK34C	2035	4-2021-04470	1114	4C30	2030	4JX16A667G	1617
2U12	1104	3F150	1067	3L4-6012-6	2020	3SM4	1020	4-2021-04770	1114	4C31	2030	4JX16A667O	1617
2W005	1173	3F150(SCR)	1067	3L4-6012-8	2020	3SS4M	1020	4-2021-04970	1104	4C43	2009	4JX16A667R	1617
2W01	1173	3F200	1067	3L4-6012-55	2017	3T501	1104	4-2021-05000	1122	4D4	1104	4JX16A667Y	1617
2W02	1173	3F200(SCR)	1067	3L4-6012-56	2020	3T502	1104	4-2021-05870	1123	4D6	1104	4JX16A668	1617
2W04	1173	3FR050R	1067	3L4-6012-58	2020	3T503	1104	4-2021-07470	1122	4D8	1104	4JX16A668/G	2009
2W3A	1104	3FS1	1104	3L4-6013-6	2027	3T504	1104	4-2021-07670	1122	4D20	1617	4JX16A668/O	2009
2W4A	1104	3FS2	1104	3L4-6013-15	2027	3T505	1104	4-2021-08270	1104	4D21	1617	4JX16A668/Y	2009
2W5A	1104	3G2	2062	3L4-9020-1	703	3T506	1104	4-2021-09370	1114	4D22	1617	4JX16A668G	1617
2W6A	1114	3G6	1104	3L1030	1067	3T507	1114	4-2021-10270	1104	4D24	1617	4JX16A668O	2009
2W7A	1114	3G152	1104	3L2015	1067	3TS08	1114	4-2021-10470	1104	4D25	1617	4JX16A668Y	1617
2W9A	1114	3G154	1104	3L46007-1	2009	3T509	1114	4-2029-70860	1122	4D26	1617	4JX16A669	1617
2X9A116	1104	3G156	1104	3L46007-2	2009	3TS10	1114	4-2029-71590	1122	4G8	1114	4JX16A669G	1617
2XAA111	1123	3G158	1114	3LH61	1114	3TCRF	1020	4-2039-70380	2016	4GA	1104	4JX16A669Y	1617
2XAA112	1123	3G252	1104	3MS5	1104	3TCRG	1020	4-2039-70431	2009	4H-130-30302	1122	4JX16A670	1617
2XAA113	1123	3G254	1104	3MS10	1104	3TE120	2041	4-2040-08000	1122	4H-130-30312	1123	4JX16A670G	1617
2XAA119	1123	3G256	1104	3MS20	1104	3TE140	2041	4-3033	1104	4H-130-30702	1122	4JX16A6670	2009
3-1477	1144	3G258	1114	3MS30	1104	3TE220	2055	4-3034	1122	4H-130-30862	562	4JX16A6680	1617
3A1	1114	3G1510	1114	3MS40	1104	3TE230	2041	4-5145	1617	4H-130-30869	1123	4JX16B670/B	2009
3A15	1141	3G2510	1114	3MS50	1104	3TE240	2041	4-68682-3	1617	4H-130-31012	1123	4JX16B670/R	2009
3A30	1141	3GA	1104	3N35	1617	3TH62	1114	4-68689-3	1114	4H-130-31438	1101	4JX16B670/Y	2009
3A50	1114	3GH61	1114	3N71	2016	3TX002	2055	4-68695-3	2016	4H-130-40936	2009	4JX16B670B	1617
3A50FS	1114	3GS1	1104	3N72	2016	3TX003	2041	4-68697-3	1114	4H-130-40937	2009	4JX16B670G	1617
3A100	1114	3GS2	1104	3N73	2016	3TX004	2041	4-684120-3	2016	4H-130-40937(,1402C)		4JX16B670R	1617
3A100FS	1114	3GZ61	1144	3N74	2016	3X11/1	1104	4-685285-3	2016		2009	4JX16B670Y	1617
3A132	1104	3HS1	1104	3N75	2016	3.3B1	1101	4-686105-3	1114	4H-130-40937(,BC548B)		4JX16E3860	1617
3A134	1104	3HS2	1104	3N76	2016	4-12-1A7-1	1617	4-686106-3	1114		2009	4JX16E3890	1617
3A156	1104	3J15	1067	3N77	2016	4-46	2016	4-686107-3	2016	4H-130-41356	2016	4JX16E3960	1617
3A158	1114	3J30	1067	3N78	2016	4-47	2009	4-686108-3	2016	4H-130-41395	2023	4JX24X539	563
3A-200	1114	3J60	1067	3N79	2016	4-47(SEARS)	1617	4-686112-3	2016	4H-130-41461	2016	4JX29A826	2023
3A200	1104	3J100	1067	3N87	2016	4-50	1104	4-686114-3	2016	4H-130-44121	2009	4JX29A829	2023
3A200FS	1114	3JH-61	1104	3N88	2016	4-202A16	1123	4-686118-3	2016	4H-130-44196	2009	4JZ4X539	563
3A252	1104	3JH61	1104	3N90	2023	4-202R101	1104	4-686119-3	2016	4H-130-44196(,BC548C)		4JZ4XL12	563
3A254	1104	3K15	1067	3N91	2023	4-203-5100-69372	2016	4-686120-3	2016		2009	4K30	1067
3A256	1104	3K5797	2023	3N92	2023	4-282	1123	4-686126-3	2016	4H1034-4196	2009	4K60	1067
3A258	1114	3L4-2001	1123	3N93	2023	4-324	2035	4-686127-3	2016	4H1303-0219	1123	4K100	1067
3A300	1144	3L4-2001-1	1123	3N94	2023	4-397	2030	4-686131-3	2016	4H1303-0613	1122	4L30	1067
3A400	1114	3L4-2001-1A	1123	3N95	2023	4-398	2030	4-686132-3	1617	4H1303-1201	1104	4L100	1067
3A400FS	1114	3L4-2001-3	1122	3N114	2023	4-399	2016	4-686139-3	1114	4H1303-1356	1104	4SD46-2	1123
3A500FS	1114	3L4-2001-4	1122	3N115	2023	4-400	2016	4-686140-3	2016	4H1303-1393	1104	4T6.2	561
3A600	1114	3L4-2003-1	1123	3N116	2023	4-433	2016	4-686143-3	1617	4H1304-0938	2009	4T6.2A	561
3A600FS	1114	3L4-2003-3	1123	3N117	2023	4-434	2016	4-686144-3	1617	4H1304-0941	2023	4T501	1104

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4T502	1104	5J-F1	1104	6M404-7	1104	7-5853A	1000	8-719-102-73	561	8-724-034-00	2009	8-729-902-11	2016
4T503	1104	5K10	1114	6R551GX12	1101	7-5853B	1000	8-719-102-74	561	8-724-375-01	2009	8-729-965-22	2009
4T504	1104	5MA2	1104	6RW62HY	1104	7-6006-00	1143	8-719-102-88	562	8-725-800-00	2058	8-729-965-22(,2SC1652-	
4T505	1104	5MA4	1104	6X97047A01	1617	7-2585301-01	1000	8-719-103-09	564	8-725-923-00	2058	Q)	2009
4T506	1104	5MA4D	1104	6X97174A01	1122	7-2585301-02	1000	8-719-103-11	564	8-726-357-10	2009	8-729-978-62	2023
4T507	1114	5MA5	1104	6X97174XA08	1122	7-2585303	1000	8-719-109-85	565	8-726-368-10	2009	8-729-993-72	2023
4T508	1114	5MA6	1104	6.28	561	7A30	2016	8-719-110-31	563	8-726-388-00	2009	8-729-37501	2009
4T509	1114	5MA8	1114	6.2B1	561	7A30(GE)	2030	8-719-112-01	563	8-727-786-00	2023	8-759-112-38	703
4T510	1114	5MA10	1114	6.281(1WATT)	561	7A30(SHERWOOD)	1617	8-719-112-07	563	8-727-786-01	2023	8-759-132-40	1711
4W01-13	563	5MF1	1104	6.282	561	7A31	2016	8-719-112-24	563	8-729-104-33	2020	8-759-140-01	2401
4.7B1	565	5MS5	1104	6.283	561	7A31(GE)	2030	8-719-112-25	563	8-729-108-53	2009	8-759-140-11	2411
4.7B2	565	5MS10	1104	6.2E83	561	7A31(SHERWOOD)	1617	8-719-151-07	565	8-729-117-54	2023	8-759-145-58	038
4.7X	565	5MS20	1104	6.2N1	561	7A32	2016	8-719-151-77	565	8-729-117-54(,2SA1175)		8-759-240-01	2401
4.7Z	565	5MS30	1104	6.2N2	561	7A32(GE)	2030	8-719-160-24	565		2023	8-759-240-11	2411
5.8	1617	5MS40	1104	6.2Y	561	7A32(SHERWOOD)	2030	8-719-160-44	562	8-729-117-63	2009	8-759-240-13	2413
5-30082.3	1114	5MS50	1104	6.2Z	561	7A35(GE)	2030	8-719-162-07	561	8-729-118-76	2055	8-759-240-49	2449
5-30082.4	1114	5N1	1104	7-0002	1104	7A995	2030	8-719-200-01	1104	8-729-167-42	2016	8-759-272-15	1114
5-30086.1	1104	5O	1123	7-0003	1171	7A995(GE)	2030	8-719-200-02	1104	8-729-167-42(,2SC1674-		8-759-903-86	1731
5-30088.1	1104	5P-01	1104	7-0004	1104	7A995(SHERWOOD)		8-719-200-10	1104	M)	2016	8-761-622-00	2016
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5-30094.1	1104	5.1B	565	7-0006	1123	7A1011	2030	8-719-210-10	1114	8-729-178-54	2009	8-765-422-00	2035
5-30095.1	1104	5.1B1	565	7-0008	1104	7A1011(GE)	2030	8-719-300-38	1104	8-729-178-54(,2SC2785)		8-765-423-00	2035
5-30096.1	1104	5.1B2	565	7-0013	1122	7A1011(SHERWOOD)		8-719-300-38(,GU-3A)			2009	8-765-424-00	2035
5-30098.1	1104	5.1B2,,	565	7-0014	2023		2030		1104	8-729-178-56	2009	8-769-194-00	2035
5-30099.3	1104	5.1EB2	565	7-0015	1617	7D	1104	8-719-300-45	1102	8-729-191-81	2020	8-769-200-00	2035
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5-30106.1	1104	5.1N1	565	7-2(SARKES)	1617	7D210A	1114	8-719-300-76(,RH-1A)		8-729-200-02	1104	8-769-200-40	2035
5-30109.1	1104	5.1N2	565	7-3(SARKES)	1617	7L6-0495-14	1104		1104	8-729-200-33	2020	8-795-145-58	038
5-30113.1	1104	5.1N3	565	7-4	2016	7MA60	1104	8-719-300-91	1102	8-729-201-78	2020	8-902-0706-071	1617
5-30120.1	1104	5.1X	565	7-4(SARKES)	1617	8-0001300	1114	8-719-301-18	1114	8-729-201-78(,2SD1406-		8-905-013-752	1104
5-70004502	1617	6-02	2009	7-6	2016	8-0001400	1114	8-719-302-00	1104	Y)	2020	8-905-013-759	1104
5-70005433	1617	6-04	1617	7-6(SARKES)	2009	8-0024-1	2016	8-719-331-10	1104	8-729-204-82	2023	8-905-013-760	1104
5-70005500	1617	6-04GRN	1617	7-7	2016	8-0024-2	2016	8-719-422-21	1123	8-729-204-83	2023	8-905-014-017	1617
5-7000901504	1617	6-04ORN	1617	7-7(SARKES)	1617	8-0024-3	1617	8-719-500-34	1114 N2	8-729-204-83		8-905-198-001	1104
5A1	1104	6-04S1	1617	7-8	2016	8-00243	1617	8-719-501-34	1114 N1	(,2SA1048GR)	2023	8-905-198-004	1104
5A2	1104	6-04S2	1617	7-8(SARKES)	1617	8-005202	1617	8-719-503-40	1114	8-729-245-83	2009	8-905-198-005	1104
5A3	1104	6-05	1617	7-8(STANDEL)	1173	8-0050100	1617	8-719-511-10	1171	8-729-245-83(,2SC2458)		8-905-198-007	1104
5A4	1104	6-05F	1617	7-9	2016	8-0051500	1617	8-719-511-40	1173		2009	8-905-198-008	1104
5A4D	1104	6-05YEL	1617	7-9(SARKES)	2016	8-0052102	1617	8-719-800-34	1114 N2	8-729-245-84	2009	8-905-198-010	1104
5A4D-C	1104	6-0451	1617	7-10	2016	8-0052302	2009	8-719-815-55	1122	8-729-266-93	2009	8-905-198-034	1104
5A5	1104	6-0452	1617	7-10(SARKES)	2016	8-0052402	2041	8-719-815-80	1122	8-729-266-93(,2SC2669-		8-905-305-004	1123
5A5D	1104	6-11	1617	7-11(SARKES)	2016	8-0052600	1617	8-719-815-85	1122	Y)	2009	8-905-305-007	1123
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5A6D	1104	6-30	1617	7-12(STANDEL)	2041	8-0053300	2030	8-719-900-63	1102	8-729-288-02	2020	8-905-305-023	1123
5A6D-C	1104	6-31	2023	7-13	2041	8-0053400	1617	8-719-900-93	1104	8-729-288-02(,2SD880-		8-905-305-055	1123
5A8	1114	6-31A	2023	7-13(STANDEL)	2041	8-0053600	2016	8-719-900-95	1104	Y)	2020	8-905-305-318	1123
5A8D	1114	6-38	2023	7-15(SARKES)	1617	8-0318250	1617	8-719-900-95(,V19E)		8-729-304-00	2035	8-905-305-327	1123
5A8DC	1114	6-38A	2023	7-15(STANDEL)	1114	8-0337390	1617		1104	8-729-305-42	2035	8-905-305-330	1123
5A10	1114	6-49	2023	7-16	2016	8-0338030	2016	8-719-901-02	1102	8-729-307-62	2020	8-905-305-336	1123
5A10C	1114	6-90	2016	7-16(SARKES)	1617	8-0338040	2016	8-719-901-03	1104	8-729-313-42	2020	8-905-305-338	1123
5A10D	1114	6-93	2009	7-17	1617	8-0339430	2016	8-719-901-09	1104	8-729-313-42(,2SD1134-		8-905-305-339	1123
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5A15	1067	6-59010	1104	7-18(SARKES)	1617	8-0383840	2016	8-719-901-19	1104	8-729-316-12	2020	8-905-305-348	1123
5A D	1104	6-6490004	2041	7-19(SARKES)	1617	8-0383930	2016	8-719-901-24	1020	8-729-316-16	2020	8-905-305-400	1104
5AD8	1114	6A10227	1617	7-20	2016	8-0383940	1617	8-719-901-83	1122	8-729-316-16(,2SC1061)		8-905-305-405	1123
5AD8DC	1114	6A10228	2030	7-20(SARKES)	1617	8-0389910	1617	8-719-901-92	1104		2020	8-905-305-555	1123
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5AD10C	1114	6A10423	1617	7-22	2016	8-0414120	2041	8-719-901-93(,V19C)		8-729-341-34	2055	8-905-305-580	1123
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5B-1	1104	6A10851	1617	7-23	2016	8-0421980	1617	8-719-901-94	1104	8-729-348-47	2023	8-905-313-007	1123
5B-2	1104	6A10855	1617	7-23(SARKES)	2016	8-4(BENDIX)	1617	8-719-901-95	1104	8-729-372-52	2009	8-905-313-008	1123
5B2	1114	6A11180	1617	7-24(SARKES)	2016	8-22	1104	8-719-903-09	1104	8-729-375-01	2009	8-905-313-010	1123
5B-2-H5W	1104	6A11223	2016	7-25(SARKES)	2016	8-25	1104	8-719-903-29	1104	8-729-600-27	2009	8-905-313-011	1123
5B3	1104	6A12677	2016	7-26	2016	8-38	1104	8-719-907-40	1104	8-729-600-27(,2SC634-		8-905-313-018	1123
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5D2	1104	6A12682	2009	7-43	2016	8-639-001-095	1104	8-719-911-54	1144		2009	8-905-313-120	1123
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5D10	1114	6A12725	1617	7-45	2016	8-697-020-571	1123	8-719-912-54	1114	8-729-609-06	2009	8-905-405-026	1104
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5G8	1114	6GA175D	1104	7-59-022/3477	2009	8-719-100-38	561	8-719-938-36	1104	14)	2009	8-905-405-170	1114
5GA	1104	6GA1750	1104	7-59-023/3477	2009	8-719-100-55	562	8-719-938-40	1102	8-729-671-15	2009	8-905-405-206	1104
5G-D	1104	6GD1	1101	7-59-024/3477	2009	8-719-100-64	563	8-719-941-13	1114	8-729-801-22	2009	8-905-405-838	1123
5GD	1104	6GX1	1101	7-59-068	1617	8-719-100-65	563	8-719-981-01	1165	8-729-803-04	2016	8-905-406-020	1122
5GF	1114	6M4	1104	7-59-0193477	2016	8-719-100-72	564	8-722-381-20	2035	8-729-806-84	2016	8-905-413-092	1104
5GFH	1104	6M404-1	1104	7-59-0203477	2016	8-719-100-72(,RD15E-		8-722-383	2035	8-729-831-33	2020	8-905-421-118	562
5GJ	1114	6M404-2	1104	7-59-0213477	2016	83)	564	8-723-302-00	2035	8-729-880-82	2023	8-905-421-128	564
5G[illegible]1N	1104	6M404-3	1104	7-59-0223477	2016	8-719-102-64	565	8-723-303	2035	8-729-883-91	2009	8-905-421-215	565
5H	1104	6M404-4	1104	7-59-0233477	2016	8-719-102-67	565	8-723-303-03	2035	8-729-883-91		8-905-421-228	562
5H4D1	1104	6M404-5	1104	7-59-0243477	1617	8-719-102-68	565	8-723-303-20	2035	(,2SC2839D)	2009	8-905-421-234	563
5H750M	1104	6M404-6	1104	7-5853	1000	8-719-102-69	565	8-723-304-00	2035	8-729-883-92	2009	8-905-421-239	564

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
8-905-421-308	1122	8C449	2023	9-9109-1	1617	10AG6	1104	10D-7K	1114	10R6B	1104	12-085006	1123
8-905-421-319	563	8C449K	2023	9-9109-2	1617	10AG8	1114	10D8	1104	10R7B	1114	12-085009	1123
8-905-421-715	564	8C450	2023	9-511511500	1114	10AG10	1114	10D-10	1114	10R8B	1114	12-085029	1123
8-905-605-644	2016	8C460	2023	9ACW	2035	10AL2	1104	10D10	1114	10R9B	1114	12-085031	1104
8-905-705-112	1617	8C460K	2023	9C3	562	10AL6	1104	10DB	1104	10R10B	1114	12-085034	1123
8-905-705-403	1617	8C463	2023	9D11	1122	10AS	1104	10DB1	1171	10V-50	1104	12-085035	1123
8-905-705-405	1617	8C463K	2023	9D12	1123	10AT2	1104	10DB2P	1173	10V-100	1102	12-085038	1123
8-905-705-410	2030	8C465	2023	9D13	1104	10AT4	1104	10DB4	1173	10V-200	1103	12-085040	1104
8-905-706-044	2016	8C465K	2023	9D15	562	10AT6	1104	10DB4A	1173	10Z6	1104	12-085041	1123
8-905-706-055	2016	8C466	2023	9D16	1123	10AT8	1114	10DB6A	1173	11/1	1122	12-087003	1123
8-905-706-060	2016	8C466K	2023	9D141003-12	562	10AT10	1114	10DB6A-C	1173	11/1+12/1	1104	12-087004	1122
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8-905-706-071	2016	8C467K	2023	9DI1	1122	10B-2	1104	10DC0B	1104	11/15	1104	12-1-70-12	1617
8-905-706-075	2016	8C468	2023	9DI2	1123	10B2	1104	10DC0H	1104	11/1592	1104	12-1-70-12-7	1617
8-905-706-080	2016	8C468K	2023	9DI3	1104	10B-2-B1W	1104	10DC0.5	1104	11-0422	2009	12-1-276	1617
8-905-706-101	2016	8C469	2023	9DI5	562	10B2-B1W	1171	10DC-1	1104 N1	11-0429	1104	12-1-277	1617
8-905-706-104	1617	8C469K	2023	9DT1100310	1123	10B-2-N1W	1104	10DC1	1104	11-0430	1122	12-1-278	1617
8-905-706-110	2016	8C470	2023	9GR2	1617	10B3	1104	10DC1BLACK	1104	11-0769	1104	12-1-279	1617
8-905-706-112	2016	8C470K	2023	9LR2-2	1101	10B-4	1101	10DC-1R	1104	11-0771	1104	12-1A	1617
8-905-706-201	1617	8C700	2023	9LR2-4	1101	10B4	1104	10DC1R	1114	11-0774	2009	12-1A0	1617
8-905-706-202	1617	8C700A	2023	9N00	1801	10B-4-C4	1101	10DC-2	1114	11-0778	2009	12-1A0R	1617
8-905-706-203	1617	8C700B	2023	9N00DC	1801	10B5	1104	10DC2	1104	11-0781	1122	12-1A1	1617
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8-905-706-208	1617	8C702A	2023	9N01DC	1801	10B8	1114	10DC-2C	1104	11-085003	1104	12-1A3	1617
8-905-706-211	1617	8C702B	2023	9N01PC	1801	10B10	1114	10DC-2F	1104	11-085004	1123	12-1A3P	1617
8-905-706-215	1617	8C704	2023	9N04	1802	10B551	2016	10DC2F	1104	11-085005	1123	12-1A4	1617
8-905-706-235	1617	8C740	2023	9N04DC	1802	10B551-2	2016	10DC-2J	1104	11-085007	1123	12-1A4-7	1617
8-905-706-236	1617	8C740G	2023	9N04PC	1802	10B551-3	2016	10DC-4	1104	11-085008	1123	12-1A4-7B	1617
8-905-706-238	1617	8C740M	2023	9N08	1822	10B553	2016	10DC4	1104	11-085010	1617	12-1A5	1617
8-905-706-239	1617	8C742	2023	9N08DC	1822	10B553-2	2016	10DC-4R	1104	11-085012	1122	12-1A5L	1617
8-905-706-240	1617	8C742G	2023	9N08PC	1822	10B553-3	2016	10DC4R	1104	11-085013	1104	12-1A6	1617
8-905-706-242	1617	8C742M	2023	9OC69-1	1104	10B555	2016	10DC-4R-202	1104	11-085014	1123	12-1A6A	1617
8-905-706-244	1617	8C7400	2023	9RE1	1104	10B555-2	2016	10DC5	1104	11-085015	1123	12-1A7	1617
8-905-706-245	1617	8C7420	2023	9S037	1617	10B555-3	2016	10DC8	1114	11-085022	1123	12-1A7-1	1617
8-905-706-246	1617	8CG15	1104	9TR1	2016	10B556	2016	10DC8R	1114	11-085024	1104	12-1A8	1617
8-905-706-247	2023	8CG15RE	1104	9TR2	2009	10B556-2	2016	10DCIN	1104	11-102-001	1171	12-1A9	1617
8-905-706-250	1617	8D4	1104	9TR3	2009	10B556-3	2016	10DCIR	1104	11-1592	1104	12-1A9G	1617
8-905-706-251	2023	8D6	1104	9TR7	2009	10B1051	2016	10DCOB	1104	11-102001	1104	12-1A19	1617
8-905-706-253	2023	8D8	1114	9TR8	2020	10B1055	2016	10DCOH	1104	11-102003	1171	12-1A21	1617
8-905-706-254	2023	8D10	1114	9TR10	1617	10B-Y	1104	10DCO.5	1104	11-108002	1171	12-1A82	1617
8-905-706-255	2023	8G7	1114	9TR11001-01	2016	10C	1104	10DF1	1102	11-120007	1104	12-4	1617
8-905-706-256	2023	8GA	1114	9TR21001-02	1617	10C05	1104	10DF2	1103	11B551	2016	12-10	1617
8-905-706-257	1617	8P7OBLU	2020	9TR31001-03	1617	10C1	1104	10DF4	1104	11B551-2	2016	12-11	1617
8-905-706-260	1617	8P73BLU	2020	9TR61001-07	2030	10C2	1104	10DF6	1114	11B551-3	2016	12-12	1617
8-905-706-263	1617	8P111	2035	9TR91001-09	2041	10C3	1104	10DF8	1114	11B552	2016	12-13	1617
8-905-706-280	2023	8P345	2020	9TRZ1001-02	1617	10C4	1104	10DI	1114	11B552-2	2016	12-14	1617
8-905-706-286	2023	8Q-3-01	2016	9.1B	562	10C4D	1104	10D-V	1104	11B552-3	2016	12-15	1617
8-905-706-287	2023	8Q-3-10	2016	9.1B2	562 N6	10C5	1104	10DX2	1104	11B554	2016	12-16	1617
8-905-706-288	2023	8Q-3-11	2023	9.1B3	562	10C6	1104	10DZ	1104	11B554-2	2016	12-17	1617
8-905-706-289	2023	8Q-3-12	2009	9.1N3	562	10C8	1114	10E-1	1104	11B554-3	2016	12-18	1617
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8-905-706-336	1617	8Q-3-14	2023	9.S037	2009	10C573	2016	10E1LF	1104	11B555-2	2016	12-23163-3	2016
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8-905-706-606	1617	8S191A04	1104	10-008	2009	10C574-2	2016	10E4A	1104	11C551	2016	12-SZ-EQB01-12A	563
8-905-706-730	2016	8T04A	1000	10-010	1122	10C574-3	2016	10E4B	1104	11C551-2	2016	12A1	563
8-905-706-901	2035	8T04HA	1000	10-012	1104	10D	1104	10E6	1104	11C551-3	2016	12B	563
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8-905-707-265	1617	8T14HA	1000	10-080009	2016	10D-05	1104	10E10	1114	11C553-2	2016	12B,,	563
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8-905-713-058	2023	8T24HA	1000	10-085001	1123	10D-06	1104	10E-10P	1104	11C557	2016	12B1(1WATT)	563
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8A11667	1104	8U12	1114	10-085018	1123	10D-2B	1104	10H	1104	11DF1	1104	12C2	1104
8A12789	1617	8.75VZENER	562	10-085025	1122	10D-2B(-4)	1104	10H551	2016	11DF2	1104	12C2(ZENER)	563
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8C201	2023	9-5127	2016	10-085030	1104	10D3G	1104	10H1053	2016	11DQ03	1101	12C5Y	563
8C202	2023	9-5128	2016	10-0800010	1617	10D-4	1114	10I10	1114	11DQ04	1101	12CLN	1617
8C203	2023	9-5129	2016	10-1	2016	10D4	1114	10J2	1104	11DQ05	1101	12J2	1104
8C204	2023	9-5130	2016	10-2	2016	10D4A	1104	10J2F	1104	11E1	1104	12J2F	1104
8C205	2023	9-5131	2016	10-2SC80	2016	10D4B	1104	10K	1104	11E1TA1-T	1104	12P2	1122
8C206	2023	9-5216	1617	10-2SC94	2016	10D4E	1104	10M	1104	11G1052	2016	12SZ-EQB01-12A	563
8C207	2023	9-5220	2030	10-2SC380	2016	10D5	1104	10N1	1104	11G1053	2016	12V	563
8C430	2023	9-5221	2009	10-7	1104	10D5B	1104	10O-202	1123	11J2	1104	12V1W	563
8C430K	2023	9-5223	2016	10-12	1104	10D5E	1104	10P1	2023	11J2F	1104	12X	563
8C440	2023	9-5225	1617	10-42	1104	10D-6	1104	10P1A	2023	11N267	1123	12X047	1617
8C440K	2023	9-5226-004	2030	10-102085	1114	10D6	1104	10R1B	1104	11T4	1067	12Y	563
8C443	2023	9-5226-2	1617	10-13002-004	2041	10D6D	1104	10R2B	1104	11T4S	1067	12Z	563
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8C445	2023	9-5227	1617	10AG2	1104	10D7	1114	10R4B	1104	12/1N10	1122	13-0003(PACE)	1122
8C445K	2023	9-5296	1617	10AG4	1104	10D7F	1114	10R5B	1104	12-085005	1123	13-0004	1123

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48-97046A47	2035	48-123173	2009	48-134804	1617	48-134911	2023	48-137023	2035	48-137180A	2041	48-137509	1617
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48-155113	1067	48C65831A02	1101	48M355040	2020	(Q))	2023	48S134734	2004	48S134958	1104	48S144256	1122
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51X90302A04	2402
51X90518A07	1770
51X90518A36	2411
51X90518A69	1723
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53B013-3	1122
53B014-1	1122
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53B019-2	1104
53B020-2	1104
53C001	1123

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53C001-1	1123	54	2016	56-8093	1123	57A21-12	2016	57A185-11	2055	57B5-8	2016	57B151-6	2016
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53C009-1	1104	54BLK	2016	56-8196	2016	57A21-21	2016	57A194-12	1067	57B21-2	2016	57B152-7	1617
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53D002-2	1123	54WHT	1617	56A221-1	2009	57A31-4	2035	57A204-14	1617	57B21-15	2016	57B153-4	1617
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53E001-1	1123	55-642	2030	56SZ-WZ120(AU)	563	57A101-4	2016	57A215-12	2023	57B21-18	2016	57B153-7	1617
53E003-1	1123	55-1026	1617	56Z4	563	57A102-4	2016	57A216-12	2023	57B27-2	2009	57B153-8	1617
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53E011-1	1171	55-1084	2030	57-000901504	1617	57A106-12	2023	57A240-14	2023	57B102-4	2016	57B157-9A	2023
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53F001-1	1104	55-1085A	2023	57-2	1104	57A107-2	2016	57A243-10	1067	57B105-12	1617	57B159-12A	2023
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53H001-1	1104	55-SI-MC14011BCP	2411	57-12	1104	57A107-4	2016	57A249-4	2016	57B107-8	1617	57B160-2	2016
53H001-2	1123	55-SZ-RD12EB	563	57-13	1104	57A107-5	2016	57A250-14	2020	57B108-6	2023	57B160-3	2016
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53J003-2	1122	56-1	1123	57-21	1104	57A126-12	2016	57A258-8	2023	57B117-9	1617	57B160-7	2016
53J004-1	561	56-2	1123	57-22	1104	57A128-9	2030	57A259-10	1067	57B118-12	1617	57B160-8	2016
53K001-2	1123	56-3	1123	57-23	1104	57A129-9	2030	57A263-11	2055	57B119-2	2016	57B166-12	2016
53K001-4	561	56-4	1123	57-24	1104	57A131-10	2030	57A265-4	1617	57B119-12	1617	57B167-9	2030
53K001-5	1123	56-5	1122	57-27	1104	57A133-12	2023	57A268-9	1617	57B120-12	1617	57B169-2	2035
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53K001-6(5,7)	1104	56-10	1123	57-31	1104	57A135-12	1617	57A280-14	2009	57B122-9	2023	57B170-9	2030
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53K001-7(6,8)	1104	56-16	565	57-38	1104	57A137-12	2023	57A282-12	1617	57B125-9	1617	57B175-9A	2041
53K001-11	1104	56-19	562	57-42	1114	57A137-12A	2023	57A286-10	2020	57B126-12	1617	57B175-12	2023
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71SZ-UZ-12B(AU)(,UZ-12B(	563
72-11	1104
72-15	1104
72-18	1122
72-ST-MPS9750F	2023
72-ST-MPS9750G	2023
72N1	2016
72N1B	2030
72N2	2016
72N2B	1617
72ST-MPS9750F	2023
72ST-MPS9750G	2023
72T2	2020
72Z	1104
73-15	564
73-ST-2SC945R(AU)E	2009
73N1	2016
73N1B	1617
73W00124	1822
74	2016
74-5T-2SA1015O(AU)E	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
74-ST-25C763D	2016	76N1(REMOTE)	2009	80-033600	2016	83P3AA	2023	86-57-3	1104	86-139-2	1617	86-324-2	1617
74-ST-25C785-O	2058	76N1(VID)	2016	80-40-1	1123	83P3AA1	2023	86-58-1	562	86-139-3	1104	86-327-2	1617
74-ST-25C1906(AP)	2016	76N1B	2030	80-308-2	1617	83P3B	2023	86-58-2	1617	86-143-2	1617	86-328-2	1617
74N1	1617	76N1M	1617	80-318250	1617	83P3B1	2023	86-58-3	1104	86-144-2	1617	86-330-2	2030
74P1	2023	76N2	1617	80-337390	1617	83P3M	2023	86-59-1	1104	86-146-1	1123	86-336-2	2030
745T-25C763D	2016	76N2B	2030	80-338030	2016	83P3M1	2023	86-59-3	1104	86-146-3	1104	86-339-2	1617
745T-25C785-O	2058	76N3B	2030	80-338040	2016	83P4	2023	86-60-1	1123	86-147-1	1104	86-339-9	1617
74T2	2020	765D-1N4148(AU)	1122	80-339430	2016	84-SZ-RD12EB3	563	86-60-3	1104	86-147-3	1104	86-340-2	2023
75	1104	765D-1N4148(AU)		80-339440	2016	84A20	1122	86-61-1	563	86-155-2	1617	86-340-20	2023
75-100-001	1122	(,1N4148(	1122	80-383840	2016	85	1102	86-62-1	1122	86-157-2	2009	86-342-2	1617
75-5T-25D467C(AU)E		765I-HD14011BP	2411	80-383930	2016	85-5	1104	86-62-3	1104	86-158-2	1617	86-359-2	1617
	2009	76Z4	563	80-383940	1617	85-ST-25A733Q	2023	86-63-3	1104	86-161-2	2030	86-362-2	1617
75A198-11	2055	77(DIO)	1103	80-389910	1617	85-ST-25C458C(AU)E		86-64-1	1123	86-166-2	1617	86-365-2	1617
75D01	1067	77-271031-1	1123	80-389930	1617		2009	86-65-1	563	86-170-2	2030	86-379-2	1617
75D02	1067	77-271032-1	1123	80-414120	2041	855T-25A733Q	2023	86-65-1(,EQB01-12)	562	86-171-2	1617	86-381-2	2009
75D04	1067	77-271334-1	1104	80-414130	2041	86	1102	86-65-3	1104	86-175-2	1617	86-386-2	2016
75D05	1067	77-271374-1	1104	80-421980	1617	86-0002	1123	86-65-4	1122	86-178-2	2023	86-389-2	1617
75D06	1067	77-271453-1	1617	80A5	1114	86-0005	562	86-65-9	1104	86-178-20	2023	86-390-2	1617
75D1	1104	77-271490	2030	80A5	1114	86-0006	1104	86-67-0	1104	86-182-2	1617	86-391-2	1617
75D2	1104	77-271490-1	2030	80H	1114	86-0007	1101	86-67-2	1114	86-183-2	2023	86-393-2	2030
75D8	1114	77-271967-1	1617	81-27123100-3	1104	86-0007-004	1617	86-67-2	1104	86-183-20	2023	86-399-2	1617
75D10	1114	77-272913-1	2020	81-27123150-8	1123	86-0008	1123	86-67-3(,1N4004GP)		86-185-2	2016	86-399-9	1617
75E1	1104	77-272914-1	2027	81-27123300-3	1104	86-0016-01	1104		1103	86-186-2	2016	86-400-2	2016
75E2	1104	77-272999-1	2030	81-27123307-3	1104	86-0022-001	1617	86-67-3(,1N4005GP)		86-188-2	1617	86-403-2	1617
75E3	1104	77-273001-2	1617	81-27125140-7	1617	86-0029-001	1617		1104	86-189-2	1617	86-406-2	2023
75E4	1104	77-273715-1	2020	81-27125140-7A	1617	86-0031-001	1617	86-67-3(,1S1885)	1102	86-191-2	1617	86-407-2	2023
75E5	1104	77-273716-1	2027	81-27125140-7B	1617	86-0036-001	2023	86-67-3(,1S1887)	1103	86-192-2	1617	86-416-2	2016
75E6	1104	77-273738-1	2020	81-27125160-5	1617	86-0511	1104	86-67-3(,1S1887A)	1103	86-194-2	1617	86-417-2	2016
75E7	1114	77-273739-1	2027	81-27125160-5A	1617	86-0513	1123	86-67-3(,1S1887AFA)		86-195-2	1617	86-420-2	1617
75E8	1114	77-55-2N5062	1067	81-27125160-5B	1617	86-0516	1102		1104	86-196-2	1617	86-423-2	2023
75E10	1114	77A01	1122	81-27125270-2	1617	86-0521	563	86-67-3(,1S1887AFA-1)		86-198-2	1617	86-428-2	2030
75E11	2041	77A02	1122	81-27125270-2A	1617	86-0522	1122		1103	86-199-2	1617	86-428-9	2030
75F05	1104	77A11	1122	81-27125270-2B	1617	86-1-3	1104	86-67-3(,10D6)	1104	86-201-2	1617	86-440-2	2030
75N5	564	77A13	1122	81-27125300-7	1617	86-3-1	1101	86-67-3(,B12-02R)	1102	86-202-2	1617	86-441-2	2030
75N5AA	1617	77N1	1617	81-46123001-3	1123	86-3-3	1104	86-67-3(,B12-02RK)		86-204-2	2016	86-442-2	2016
75N5.1	565	77N2	1617	81-46123004-5	1104	86-4-1	1104		1102	86-205-2	2016	86-444-2	2016
75N6.2	561	77N2B	2030	81-46123004-7	1104	86-7-1	1104	86-67-3(,DS135C)	1104	86-207-2	2030	86-445-2	1617
75N12	563	77N3	1617	81-46123005	1104	86-9-3	1104	86-67-3(,DSF10C)	1102	86-208-2	2030	86-452-2	2030
75R1B	1104	77N4	1617	81-46123006-2	1123	86-10-01	1123	86-67-3(,EM01Z)	1104	86-210-2	2030	86-457-2	1617
75R2B	1104	77N5	1617	81-46123013-8	1123	86-10-1	1123	86-67-3(,EM1Z)	1102	86-211-2	2030	86-458-2	1617
75R3B	1104	77N6	1617	81-46123014-6	1104	86-10-1(,1S188)	1123	86-67-3(,ERB12-01RK)		86-217-2	2023	86-459-2	2023
75R4B	1104	77SS-2N5062	1067	81-46123015-3	1123	86-10-1(,1S188FM)	1123		1102	86-217-20	2023	86-460-2	1617
75R5B	1104	78-920-002	1604	81-46123018-7	1104	86-14-1	1123	86-67-3(,S5277B)	1104	86-218-2	2023	86-461-2	1617
75R6B	1104	78-900-004	2068	81-46123029-4	1123	86-15-1	1123	86-67-3(,S5277D)	1102	86-218-20	2023	86-462-2	1617
75R7B	1114	78-254566-1	1104	81-46125006-0	2016	86-20-1	1101	86-67-3(,SIB01-02)	1102	86-219-2	2023	86-463-2	2030
75R8B	1114	78-254566-4	1104	81-46125007-8	2016	86-21-1	1104	86-67-3(,SIB01-2)	1104	86-233-2	2023	86-463-3	2030
75R9B	1114	78-271031-1	1123	81-46125012-8	2016	86-22-1	1123	86-67-3(,TVR2D)	1104	86-234-2	2030	86-465-2	2009
75R10B	1114	78-271032-2	1123	81-46125013-6	2016	86-22-3	1104	86-67-3(,V06C)	1102	86-237-2	1617	86-467-2	2016
75W-005	1173	78-271143-1	1104	81-46125016-9	1617	86-23-1	1101	86-67-8	1104	86-238-2	1617	86-472-2	1617
75W005	1173	78-271199-1	1123	81-46125019-3	1617	86-23-3	1104	86-67-9	1104	86-243-2	2016	86-475-2	2023
75Z9.1	562	78-271228-1	1123	81-46125026-8	1617	86-25-1	563	86-68-3	1171	86-244-2	2016	86-477-2	2035
75Z9.1A	562	78-271383-1	563	81-46125027-6	1617	86-26-1	1104	86-68-3A	1171	86-245-2	2016	86-481-1	1617
75Z9.1B	562	78-271383-3	564	81-46125030-0	2016	86-27-1	1122	86-70-1	1122	86-246-2	2023	86-481-2	1617
75Z9.1C	562	78-271383-4	564	81-46125032-6	2016	86-28-3	1104	86-72-3	1114	86-246-20	2023	86-482-2	2023
75Z11	563	78-272160-1	1104	81-46125033-4	2016	86-30-1	1104	86-74-1	1122	86-247-2	1617	86-483-2	1617
75Z11A	563	78-273002-1	1123	81-46125065-6	2035	86-30-3	1104	86-74-9	1122	86-250-2	1617	86-483-3	1617
75Z11B	563	78-273008	1104	81-ST-25A1015O(AU)B		86-31-1	563	86-75-3	1104	86-251-2	2023	86-484-2	1617
75Z11C	563	78-273008-1	1104		2023	86-32-1	1104	86-75-3(SEARS)	1104	86-251-20	2023	86-485-2	1617
75Z12	563	78-273085	1104	81-ST-25A1050(AU)B		86-34-3	1104	86-76-1	1122	86-255-2	1617	86-486-2	1617
75Z12A	563	78-5Z-UZP-12B	563		2023	86-35-1	562	86-77-1	1122	86-256-2	1617	86-488-2	2016
75Z12B	563	78A200010P4	1801	81T2	2030	86-35-3	1104	86-78-1	1122	86-262-2	2016	86-490-2	2016
75Z12C	563	78C01	2016	82-4	1104	86-36-1	1104	86-78-3	1104	86-262-9	2055	86-491-2	2016
75Z15	564	78C02	2016	82-409501	1617	86-37-1	562	86-80-1	1104	86-263-2	2016	86-493-2	1617
75Z15A	564	78HV05CU	1770	82-RECT-SI-154(AU)	1104	86-37-3	1101	86-80-3	1104	86-264-2	1617	86-494-2	1617
75Z15B	564	78M05	1770	82N1	2016	86-38-1	1104	86-84-1	1104	86-265-2	1617	86-495-2	1617
75Z15C	564	78M05C	1770	82T2	2020	86-40-3	1104	86-85-1	563	86-266-2	2030	86-496-2	1617
76-1	2030	78M12	1771	83-1	2023	86-41-1	1122	86-88-3	1123	86-267-2	2030	86-500-2	2035
76-120-001	1723	78M12KC	1771	83-829	1104	86-42-3	1104	86-89-1	1104	86-273-2	2030	86-501-2	2023
76-13570-39	2016	78N1	1617	83-880	1104	86-43-1	1101	86-89-3	1104	86-276-2	2023	86-502-2	1617
76-13570-59	2016	78N2B	1617	83A30-1	1104	86-43-3	1104	86-92-1	563	86-276-20	2023	86-510-2	2030
76-13866-17	2016	785Z-UZP-12B	563	83B38-1	1123	86-45-1	1123	86-96-3	1101	86-277-2	1617	86-511-9	2016
76-13866-18	2016	79F015	1123	83C30-1	1104	86-46-3	1104	86-102-3	1067	86-286-2	2023	86-513-2	2009
76-13866-19	2016	79F114-1	2030	83P1	2023	86-47-3	1101	86-109-1	565	86-286-20	2023	86-515-2(SEARS)	1617
76-13866-19(VHF)	2016	79F114-2	2030	83P1A	2023	86-48-1	1123	86-109-3	[illegible]	86-289-2	2016	86-520-2	1617
76-13866-20	2016	79F153	1101	83P1B	2023	86-49-1	1123	86-110-2	1617	86-290-2	2016	86-525-2	2016
76-13866-59	2016	80-001300	1114	83P1BC	2023	86-49-3	1104	86-110-3	1067	86-291-2	2030	86-526-2	2016
76-13866-62	2016	80-001400	1114	83P1M	2023	86-50-3	1104	86-111-3	1104	86-291-9	1617	86-527-2	2023
76-14090-1	2030	80-050100	1617	83P1MC	2023	86-51-2	1104	86-116-3	1104	86-293-2	1617	86-528-2	2023
76-14196-1	1123	80-051500	1617	83P2	2023	86-51-3	1104	86-116-3(,RGP10G)	1104	86-294-2	2023	86-529-2	2020
76-I(SYLVANIA)	2023	80-052102	1617	83P2A	2023	86-52-1	1104	86-119-2	1617	86-294-20	2023	86-530-2	2027
76-L(SYLVANIA)	2023	80-052202	1617	83P2AA	2023	86-53-3	1122	86-121-2	2030	86-298-2	2023	86-533-2	2023
76-SD-1N4148(AU)	1122	80-052302	1617	83P2AA1	2023	86-54-3	1104	86-123-2	1617	86-298-20	2023	86-534-2	1617
76-S-HD14011BP	2411	80-052402	2041	83P2M	2023	86-55-3	1101	86-125-1	1123	86-306-2	2030	86-536-2	2009
76-SO-1N4148(AU)	1122	80-052600	1617	83P2M1	2023	86-56-3	1101	86-128-2	1114	86-308-2	1617	86-535-2	2009
76-ST-25C1815GR	2009	80-053001	1617	83P2N	2023	86-56-3B	1101	86-128-2(,RM11A)	1114	86-309-2	1617	86-538-2	2009
76G1450J	1104	80-053300	2030	83P3	2023	86-56-3C	1101	86-138-2	2016	86-310-2	1617	86-547-2	2023
76N1	1617	80-053400	1617	83P3A	2023	86-56-3F	1101	86-138-3	2016	86-321-2	1617	86-551-2	1617

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86-552-2	2023
86-554-2	1617
86-555-2	2023
86-555-2(,2SA495)	2023
86-555-2(,2SA495-O)	2023
86-561-2	1617
86-563-2	2055
86-563-9	2055
86-564-3	2055
86-564-9	2055
86-565-2	1617
86-567-2	2030
86-568-2	2020
86-568-9	2020
86-568-9(,2SD313RA(D))	2020
86-568-9(,2SD313RA(E))	2020
86-570-2	2023
86-570-2(,2SA608E)	2023
86-570-2(,KSA733)	2023
86-573-2	1617
86-574-2	1122
86-593-2	2058
86-593-9	2058
86-594-2	2058
86-595-2	1617
86-596-2	2016
86-597-2	2016
86-598-2	1617
86-599-2	1617
86-600-2	2023
86-604-2	2020
86-607-2	2009
86-607-2(,2SC536E)	2009
86-607-2(,2SC536F)	2009
86-607-2(,2SC536KE)	2009
86-607-2(,KSC815)	2009
86-607-2(,KSC945)	2009
86-608-2	2023
86-610-9	2023
86-613-2	2020
86-619-2	2058
86-620-2	2058
86-621-2	2058
86-622-2	2023
86-626-2	2055
86-626-9	2055
86-633-2	2055
86-633-9	2055
86-646-2	1617
86-650-2	2030
86-655-2	1617
86-661-2	1617
86-663-2	2020
86-665-2	2041
86-665-9	2041
86-669-2	2023
86-674-2	2030
86-675-2	2030
86-702-2	1617
86-1392	1617
86-5000-3	1104
86-5001-3	1104
86-5002-3	1104
86-5003-3	1104
86-5006-3	1104
86-5007-3	1123
86-5009-3	1104
86-5010-3	1122
86-5011-3	1122
86-5012-3	1104
86-5015-3	1122
86-5018-2	1617
86-5024-3	1104
86-5027-3	1122
86-5028-3	1143
86-5029-3	1104
86-5032-3	1143
86-5037-3	1122
86-5040-2	1617
86-5041-2	1617
86-5044-2	1617
86-5045-2	1617
86-5046-2	1617
86-5049-2	1617
86-5050-2	1617
86-5051-2	1617
86-5055-2	1617
86-5056-2	1617
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86-5074-2	2030
86-5079-2	2023
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86-5084-2	2020
86-5084-2A	2041
86-5093-2	2030
86-5095-2	2035
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86-5097-2	1617
86-5099-2	1617
86-5101-2	2041
86-5101-2A	2041
86-5102-2	2020
86-5103-2	1617
86-5107-2	2020
86-5108-2	2020
86-5109-2	2030
86-5110-2	1617
86-5111-2	1617
86-5112-2	2041
86-5114-2	1617
86-5122-2	2035
86-5911-3	1104
86-10003	2058
86-100002	2058
86-100003	2009
86-100004	2058
86-100005	1617
86-100006	2058
86-100007	2058
86-100008	1617
86-100009	2023
86-100013	1122
86-100014	1122
86-ST-MPS9750D	2023
86A327	2016
86A332	2041
86ST-MPS9750D	2023
86X0006-001	1617
86X0007-001	2009
86X0007-004	2016
86X0007-104	1617
86X0007-204	2016
86X0008-001	1617
86X006-001	1617
86X007-004	1617
86X007-034	1617
86X0012-001	2016
86X0016-001	2023
86X0016-001A	2023
86X0019-001	1617
86X0022-001	1617
86X0025-001	1617
86X0025-001(TIK)	2009
86X0029-001	1617
86X0031-001	1617
86X0031-002	1617
86X0031-003	1617
86X0032-001	1617
86X0034-001	2009
86X0035-001	2030
86X0036-001	2023
86X0036-001(TRANSIST	2023
86X0036-001A	2023
86X0038-001	2016
86X0040-00	1617
86X0040-001	1617
86X0041-001	2023
86X0041-001A	2023
86X0042-002	2020
86X0043-001	2016
86X0044-001	2023
86X0044-001A	2023
86X0045-001	1617
86X0046-001	2023
86X0047-001	2023
86X0048-001	1617
86X0050-001	1617
86X0051-001	2009
86X0052-001	2009
86X0054-00	2009
86X0054-001	1617
86X0058-001	2009
86X0058-002	2009
86X0058-003	2009
86X0060-001	2016
86X0061-001	2016
86X0062-001	2016
86X0063-001	1617
86X0066-001	2023
86X0066-003	2023
86X0071-001	2009
86X0072-001	2023
86X0075-002	2027
86X0080-002	2020
86X0080-100	2020&27
86X0081-001	1020
86X0081-002	1020
86X0090-001	2009
86X0113-001	2009
86X0114-001	1604
86X0129-001	2020
86X6	1617
86X6-1	1617
86X6-4-518	1617
86X7-2	1617
86X7-3	1617
86X7-4	1617
86X7-6	2016
86X7-6013	2016
86X8-1	1617
86X8-2	1617
86X8-3	1617
86X8-4	1617
86X34-1	1617
86X46	2023
86X47	2023
86X75-2	2027
86X483-2	2030
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87	1103
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129WHT	1617

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260Z00309	2016
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297V072C01	2016
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344-6015-7	2016
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344-6015-9	2016
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386-7243-P001	2016
386AK	1104
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386AX	1104
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417-84	2016
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417-118	2009
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561-6800-916	2016	561-6953/020	1617	576-0003-023	2016	608-2	2030	619-3	1000	652-005B	1104	690V075H68	2016
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561-6802-221	1617	561-6956-555	2023	576-0006-003	2035	610-017-706	1122	622C	1122	654C9	562	690V081H92	564
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561-6803-012	2023	569-0773-600	1723	580-029	1104	610-069-1	2016	627-1	2023	660-230	1104	690V086H91	1104
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561-6803-053	2030	569-0773-800	1801	588U	2035	610-070-1	1617	630-002	1123	662N007B	2009	690V086H94	2016
561-6803-055	2041	569-0882-600	1801	595-1	1617	610-070-2	1617	630-052	1104	664-015B	2020	690V086H95	2016
561-6803-115	1617	569-0882-601	1801	595-1(SYLVANIA)	1617	610-070-3	1617	630-076	1617	664-016B	2009	690V086H96	2016
561-6803-135	2023	569-0882-604	1802	595-2	1617	610-072	2016	630-079	1123	664-409B	2016	690V088H20	1122
561-6803-250	2023	569-0882-608	1822	595-2(SYLVANIA)	1617	610-072-1	2016	632-3	2020	664-410C	2016	690V088H44	2016
561-6803-391	2016	569-0882-647	1805	596-2	1122	610-072-2	2016	634	2009	664-410D	2016	690V088H45	2016
561-6803-393	2016	569-0882-690	1808	596-5	1122	610-073	2016	634-1	2016	664-412C	2009	690V088H46	2016
561-6803-397	2016	569-2142-100	1104	600	1104	610-073-1	2016	635	2023	664-413B	2058	690V088H47	2016
561-6803-416	2009	569-8800-090	2020	600-207-801	2009	610-076	1617	637	2055	664-423B	2023	690V088H48	2016
561-6803-417	2009	570-004503	1617	600-224-605	2016	610-076-1	1617	638	1617	664-614B	2058	690V088H49	2016
561-6803-448	2041	570-005503	1617	600-229-201	2009	610-076-2	1617	638-1	2030	664-615B	2016	690V088H50	1617
561-6803-460	2035	570-1	2023	600C	1122	610-077	1617	639	2009	666-1	2023	690V088H51	1617
561-6803-504	2023	571-844	2041	600X0091-086	1617	610-077-1	1617	639(ZENITH)	1617	667-004B	2035	690V089H46	2016
561-6803-565	2009	571-844A	2041	600X0092-086	2016	610-077-2	1617	639CL	2030	667-009A	2035	690V089H86	2016
561-6803-566	2009	572-1	2009	600X0093-086	2016	610-077-3	1617	640-1(SYLVANIA)	2020	669	2023	690V089H89	1617
561-6803-568	2030	572-683	1617	600X0094-086	2016	610-077-4	1617	642-028	1123	675-158	1123	690V089H91	1104
561-6803-569	2030	573-469	1617	600X0095-086	2023	610-077-5	1617	642-098	1123	676-1	2009	690V092H52	1617
561-6803-638	2023	573-472	2016	600X0096-066	1122	610-078	1617	642-102	1123	680-1	2016	690V092H54	1617
561-6803-639	2023	573-474	2016	600X0097-066	1123	610-078-1	1617	642-119	1123	684-652423-1	1104	690V092H81	1617

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690V092H84	1617	700-154	2009	753-4000-101	1617	800-002-00	1123	800-546-00	2020	880-250108	2016	903-73	1104
690V092H85	1123	700-155	2016	753-4000-537	1617	800-003-00	1123	800-547-00	2023	881-250-102	1617	903-79B	1104
690V092H96	1617	700-156	2009	753-4000-668	2016	800-004-00	563	800-548-00	1617	881-250-108	1617	903-82	1122
690V092H97	1617	700-159	562	753-4000-929	2016	800-005-00	1123	800-557-00	2016	881-250-109	1617	903-82B	1122
690V094H17	2041	700-325	2009	753-4001-932	2020	800-006-00	1104	800-672	2009&23	881-250108	2016	903-83B	1123
690V094H21	1617	700A858-285	1104	753-4004-248	2023	800-008-00	1101	800-764	2055	895	2009	903-84B	1122
690V094H35	1104	700A858-286	1104	753-5751-359	2009	800-010-00	1114	800-771	2027	901F	2009	903-91	1104
690V097H62	1617	700A858-318	2009	753-5851-359	2009	800-013-00	1104	800-50100	1617	902-000-2-04	2016	903-92B	1123
690V098H48	1617	700A858-319	2009	753-6000-002	2009	800-014-00	1104	800-51500	1617	902-000-8-04	2009	903-95B	1122
690V098H49	1617	700A858-322	1122	753-6000-019	2035	800-014-01	1104	800-52102	1617	902-001-7-18	2058	903-97B	563
690V098H50	1617	700A858-328	2016	753-8400-230	2016	800-016-00	1122	800-52202	1617	902-002-3-06	2009	903-100B	1122
690V098H52	1123	703-056-(4)	2009	753-8500-380	2009	800-017-00	1104	800-52302	1617	902-003-0-012	2009	903-102	1104
690V098H53	1104	703-1	2030	753-8510-470	2030	800-018-00	1114	800-52402	2041	902-003-0-12	2009	903-103B	1123
690V099H79	1617	703-2	2030	753-9000-019	2035	800-018-02	1114	800-52600	1617	902-003-3-17	2009	903-104B	1104
690V0103H27	1617	703B	2030	753-9000-839	2009	800-020-00	1123	800-53001	1617	902-003-6-006	2016	903-105B	1104
690V68H32	1123	705-600007	1000	753-9000-922	2009	800-021-00	1122	800-53300	2030	902-003-6-06	2016	903-108	1123
690V73H60	1123	707	2020	753-9001-674	2016	800-022-00	1123	800-53400	1617	903	2016	903-108B	1123
690V102H40	1122	710	1104	753-9001-675	2009	800-023-00	563	800-53600	2016	903-00390	1123	903-109	1104
690V102H71	1617	715EN	1617	753-9010-235	2020	800-024-00	1104	801B	1617	903-00393	1122	903-112B	1122
690V103H23	2016	715FB	2016	753-9020-784	2058	800-032-00	1104	803-18250	1617	903-00394	1104	903-113B	1123
690V103H24	2016	723	1740	753-9050-785	2058	800-035-00	563	803-37390	1617	903-3	1617	903-114B	1123
690V103H25	2016	723C	1740	754-1003-030	1123	800-036-00	1122	803-38030	2016	903-3G	1617	903-116B	1122
690V103H26	2016	723CJ	1740	754-2000-001	1122	800-037-00	1114	803-38040	2016	903-8B	1123	903-117	1104
690V103H27	2016	729-3	2030	754-2000-002	1104	800-038-00	1104	803-39430	2016	903-9B	1123	903-117B	1104
690V103H28	2016	733W00039	1808	754-2000-005	1104	800-039-00	1123	803-39440	2016	903-10B	1123	903-118	1122
690V103H29	2009	733W00042	1801	754-2000-009	1123	800-040-00	1122	803-83840	2016	903-12B	1123	903-118B	1122
690V103H30	2030	733W00064	1802	754-2000-011	1122	800-041-00	1104	803-83930	2016	903-14B	1104	903-119	562
690V103H31	1617	733W00211	2411	754-2009-150	1122	800-042-00	1122	803-83940	1617	903-15B	1104	903-119B	562
690V103H32	2009	734EU	2035	754-2509-150	1122	800-043-00	1114	803-89910	1617	903-16B	1123	903-121	1122
690V103H33	1617	737	2009	754-2720-021	1122	800-045-00	1067	803-89930	1617	903-17	1114	903-121B	1122
690V103H53	563	737(ZENITH)	1617	754-4000-088	1123	800-046-00	1104	804	1617	903-17A	1114	903-125	1104
690V103H54	1123	739H01	1617	754-4000-188	1123	800-050-00	1114	804-14120	2041	903-17B	1114	903-129	1104
690V105H19	2009	740-9007-205	705	754-4000-410	1123	800-051-00	1114	804-14130	2041	903-17C	1114	903-133	1122
690V105H-22	2009	740-9607-205	705	754-5000-021	1104	800-01300-504	1104	804-21980	1617	903-18	1123	903-136B	1122
690V105H 25	2009	741	007	754-5750-283	1122	800-01400	1104	805-1060	1123	903-18B	1123	903-146	1104
690V105H25	2009	741C	007	754-5750-284	1104	800-250-102	1617	805-10600	1123	903-20	1122	903-149	1104
690V105H27	2009	742	1123	754-5900-090	1123	800-362	2020&27	807-1	2030	903-23	1123	903-154	1104
690V105H28	2058	744	2030	754-9000-473	1122	800-366	2020&27	808-206	1104	903-23A	1123	903-156	1104
690V105H29	2058	748	2009	754-9030-009	562	800-501-00	2009	808-312	1123	903-23B	1123	903-156B	1104
690V105H31	1104	748(ZENITH)	1617	754-9052-473	1122	800-501-01	1617	818WHT	1617	903-23C	1123	903-157	1104
690V105H32	562	750-141	1104	754-9053-090	562	800-501-02	1617	822	1617	903-23D	1123	903-164	1104
690V109H44	1104	750A858-285	1104	756	1104	800-501-03	1617	822-1	1104	903-23E	1123	903-164B	1104
690V109H46	2016	750A858-319	2009	767	2009	800-501-04	1617	822-1(SYLVANIA)	2016	903-25B	1122	903-167B	1123
690V110H30	2016	750A858-328	2016	767(ZENITH)	1617	800-501-11	1617	822-2	1104	903-27	1123	903-168B	1123
690V110H31	2016	750A858-448	2020	767CL	1617	800-501-22	1617	822-3	1104	903-27B	1123	903-169B	1101
690V110H32	2016	750C838-123	1617	770-045	2020	800-508-00	1617	822-4	1104	903-28B	1104	903-177B	1122
690V110H33	2016	750C838-124	1617	772A	2016	800-509-00	2009	822-5	1104	903-29B	1123	903-178	1122
690V110H34	2030	750C838-125	1617	772B	2016	800-510-00	2041	822A	1617	903-30B	1123	903-179	562
690V110H36	2030	750D858-211	1114	772B1	2016	800-510-01	2041	822ABLU	1617	903-32	1104	903-197	1101
690V110H88	1123	750D858-212	1617	772BJ	2016	800-512-00	2030	822B	1617	903-34	1123	903-198	1104
690V110H89	2017	750D858-213	2016	772BL	2016	800-513-00	2030	823B	1617	903-34A	1123	903-206	1067
690V114H29	2016	750M63-119	1617	772BM	2016	800-514-00	1617	823WHT	1617	903-34B	1123	903-208	1173
690V114H30	1617	750M63-120	1617	772BN	2016	800-515-00	2030	824-09501	1617	903-34C	1123	903-212	1123
690V114H31	2016	750M63-146	1617	772BY	2016	800-517-00	1123	624-1	2030	903-34D	1123	903-303	1104
690V114H33	1617	750M63-149	1104	772C	2016	800-521-01	1617	824-1(SYLVANIA)	2009	903-34E	1123	903-311	1122
690V114H36	1104	751-2001-212	1104	772CC	2016	800-521-02	2030	826	2020	903-35B	1114	903-327	1123
690V116H19	2016	751-4000-88	1123	772D	2016	800-521-03	2030	826-1	2023	903-36	1114	903-330	1101
690V116H20	2016	751-6300-001	1104	772D1	2016	800-522-01	1617	827BRN	1617	903-36A	1114	903-331	561
690V116H21	1617	753-0101-047	2016	772DC	2016	800-522-02	1617	828GRN	1617	903-36B	1114	903-332	1122
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690V116H23	2023	753-1303-801	2009	772E	2016	800-522-04	1617	829A	2023	903-36D	1114	903-341	1123
690V116H24	2030	753-1372-100	2009	772EH	2016	800-523-01	2023	829B	2023	903-36F	1114	903-347	1101
690V116H40	563	753-1644-100	2016	772F	2016	800-523-02	2023	829C	2023	903-37B	1123	903-349	1123
690V116H41	1104	753-1828-001	1617	772FE	2016	800-524-02	2041	829D	2023	903-39	1104	903-355	1123
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690V118H58	1104	753-2000-004	1617	773	2009	800-524-03	2041	829E	2023	903-41B	1122	903-407	1123
690V118H59	2016	753-2000-007	2009	773(ZENITH)	1617	800-524-03A	2041	829F	2023	903-42B	1122	903-412	1114
690V118H60	2023	753-2000-008	1617	773CL	2030	800-524-04A	2041	833	2023	903-43B	1123	903-426	1104
690V118H61	2023	753-2000-009	1617	773RED	2016	800-525-04	2023	851-0372-130	1104	903-45B	1123	903-444	1114
690V119H14	1104	753-2000-011	1617	774(ZENITH)	2023	800-525-04A	2041	853-0300-632	1617	903-46	1104	903-445	1104
690V119H15	1122	753-2000-100	2016	775BRN	2016	800-526-00	1617	B53-0300-644	2016	903-48B	1122	903-448	561
690V120H89	2009	753-2000-101	2023	776-1(SYLVANIA)	2023	B00-527-00	2023	853-0300-900	1617	903-49	1104	903-450	1104
690VO37H91	1123	753-2000-107	2030	776-2	2023	800-529-00	1617	853-0300-923	1617	903-49B	1104	903-451	1114
693EP	1617	753-2000-460	2016	776-3	2023	800-530-00	1617	853-0301-317	2009	903-50	1104	903-455	2030
693FS	1617	753-2000-535	205B	776GRN	1617	800-530-01	1617	853-0373-110	1617	903-51	1123	903-457	1104
693G	1617	753-2000-710	2016	777-2	1104	800-533-00	2020	854-0372-020	1104	903-51B	1123	903-463	1104
693GT	1617	753-2000-711	2009	779BLU	2016	800-534-00	1617	858G5	1617	903-52	1104	903-467	1122
694D	1617	753-2000-735	1617	7B0WHT	1617	800-534-00(X5TR)	2009	859GK	2016	903-52B	1104	903-476	1123
694E	1617	753-2000-870	1617	783RED	2016	800-534-01	1617	863-254B	1122	903-54B	1123	903-481	565
699	1617	753-2000-871	1617	784ORN	2016	800-535-00	2035	863-567B	1122	903-58	1122	903-482	565
700-04	2035	753-2001-173	2020	785YEL	1617	800-535-01	2035	863-776B	1122	903-58B	1122	903-4B6	1122
700-110	2030	753-2100-001	1617	786	2016	800-536-00	2016	866-6	2041	903-59	1104	903-507	1123
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700-137	1104	753-4000-024	2035	792-414	1104	B00-544-30	1617	BB0-250-109	1617	903-72B	1122	903-513	565

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903-532	1165	919-01-0867	1123	921-49B	1617	921-177	2016	921-335B	2016	921-1314	2009	986M	2023
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903-556	1123	919-01-1307	1122	921-60B	2030	921-196	2016	921-349	2058	921-1335	2016	991-00-2356	1617
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904-95	1617	919-011212	1104	921-70A	2023	921-207B	2016	921-379	2058	930DZ	2016	991-00-8394A	1617
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904-95B	2016	919-011307	1122	921-72B	2016	921-209B	2009	921-407	2009	930X2	1617	991-00-8395	1617
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2093A38-5	1123	2093A41-180	1104	2139-103-4001		2169-205-1103	563	2302	1104	2495-522-1	2016	2925(E.F.-JOHNSON)	
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2093A38-11	1122	2093A41-182	1104	2139-103-4302	2023	2169-206-1106(,RU-1)		2304	1122	2495-523-1	2016	3001	2016
2093A38-13	1104	2093A41-185	1104	2139-103-7006	2023		1104	2309	562	2495-529	1617	3001A	1104
2093A38-14	1123	2093A41-186	562	2139-103-7006		2169-206-1106		2315-046	1104	2498-163	2030	3002	2016
2093A38-15	1123	2093A41-187	1123	(,KSA708-O)	2023	(,S5295G)	1104	2320-17	2009	2498-507-2	2016	3003	2016
2093A38-16	562	2093A41-189	1104	2139-103-4807	2009	2169-206-1203	1104	2321-17	2009	2498-507-3	2016	3003(SEARS)	2016
2093A38-21	1123	2093A41-194	563	2139-103-9006	2009	2169-207-1109	1114	2322	2009	2498-508-2	2016	3004(SEARS)	2016
2093A38-22	1123	2093A41-196	1123	2139-103-9307	2023	2169-208-5102	1104	2330-191	1114	2498-508-3	2016	3005(SEARS)	1617
2093A38-24	2030	2093A41-197	1104	2139-103-9705	2023	2169-208-5306	1114	2330-201	1114	2498-513	1114	3005-861	1617
2093A38-27	1123	2093A42-7	1104	2139-301-0401	2058	2169-208-5704	1104	2330-252	1114	2498-903-2	2016	3006(SEARS)	2009
2093A38-28	1104	2093A52-1	1114	2139-301-0401		2169-209-1105	1104	2336-17	2035	2498-903-3	2016	3007(SEARS)	1617
2093A38-30	1123	2093A69-1	1114	(,KSC1674R)	2016	2169-210-5808	1114	2337-17	2009	2510-31	1123	3011	2009
2093A38-31	1123	2093A71-1	1114	2139-301-0508	2058	2169-218-1307	1104	2338-17	2009	2510-32	1104	3011(E.F.-JOHNSON)	
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3018(E.F.-JOHNSON)	2016
3018(E.F.JOHNSON)	2016
3019	2023
3020	2016
3021	2016
3022	2030
3023	2016
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3028	2016
3029	2016
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3107-204-90080	2016
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3107-204-90150	2016
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3152-170	2041
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3202-51-01	2030
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3301(SEARS)	2016
3302	2023
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3391(SEARS)	2016
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3508(WARDS)	2016
3509	2016
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3514(SEARS)	2016
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3516(WARDS)	2016
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DEVICE	276-
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3526(RCA)	1617
3527	2009
3527(RCA)	2016
3527-1	2016
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3529A	1114
3529B	1114
3529C	1114
3530	2016
3530(RCA)	2016
3530-1	2016
3530-2	2016
3532(RCA)	2009
3532-1	2030
3535	2009
3535(RCA)	2016
3536	2009
3536-1	2009
3536-2	2009
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3561	2009
3561-1	2030
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3565(RCA)	2030
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3566(RCA)	2030
3567-2	2020
3568	2016
3568(RCA)	2016
3568(WARDS)	2016
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3570	2023
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3570P	2023

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3579(RCA)	2016
3581(RCA)	2023
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3586(RCA)	1617
3586-2	2016
3588	1617
3589	1617
3591	2030
3597	2023
3597-1	2023
3597-2	2023
3598(RCA)	2016
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3604(RCA)	2016
3604-3	2009
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3612	2017
3612(RCA)	2020
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3619-2	1000
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3621(RCA)	2020
3622-1	2030
3622-2	2030
3625	2009
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3626	1617
3627	2023
3627(RCA)	2023
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3632-2(RCA)	2017
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3682	2027
3683	2041

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4001BFC	2401
4001BFM	2401
4001BPC	2401
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4009(SEARS)	1123
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4011BDC	2411
4011BDM	2411
4011BFC	2411
4011BFM	2411
4011BPC	2411
4011PC	2411
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4013BDC	2413
4013BDM	2413
4013BFC	2413
4013BFM	2413
4013BPC	2413
4014	1104
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4017(IC)	2417
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4017BDM	2417
4017BFC	2417
4017BFM	2417
4017BPC	2417
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4041-000-60170	2016
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4041-200-30110	565
4041-200-40100	1123
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4049(IC)	2449
4049B	2449
4049BDC	2449
4049BDM	2449
4049BPC	2449
4051-300-10150	1104
4052(RCA)	2058
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DEVICE	276-
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4080-866-0006	2020
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4167	2009
4167(AIRLINE)	2016
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4168(PENNCREST)	2016
4168(SEARS)	2016
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4169(PENNCREST)	2016
4169(SEARS)	2016
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4473-3	2016
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4473-M-12	2030
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4558DV	038
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4686-140-3	2016

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4686-208-3	2016
4686-209-3	2016
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4686-251-3	2016
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4709	2016
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4822-130-30312	1123
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4822-130-40216	2016
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4822-130-40304	2016
4822-130-40311	2016
4822-130-40312	2016
4822-130-40313	2016
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4822-130-40317	2016
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5001-161	1123
5001-162	1122
5001-163	1104
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5101534	1123

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5205NL	1104	5613-1359(C)	2009		2009	7364-1	2020	7704-1	1114	8000-00006-146	561	8000-00028-044	1123
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5217	1122	5613-1684(Q)	2009	7005G(LOWREY)	1617	7398-6117P1	1617	7708-1	1114	8000-00006-201	1102	8000-00028-206	2009
5222	563	5613-1684(R)	2009	7006	2009	7398-6118P1	1617	7710-1	1114	8000-00006-221	1104	8000-00029-004	2009
5224	564	5613-1684(T)	2009	7014	2009	7398-6119P1	1617	7711-1	1114	8000-00006-232	562	8000-00029-001	2004
5226-1	2023	5613-1634M(R)	2009	7013	2009	7400	1801	7712-1	1114	8000-00006-280	2009	8000-00030-001	2009
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5300-82-4	1114	5613-1788R	2009	7112	1122	7400-9A	1801	7805	1770	8000-00009-174	2009	8000-00031-016	2016
5300-86-1	1104	5613-1815(GR)	2009	7113	2009	7400A	1801	7805A	1770	8000-00009-177	2016	8000-00034-010	1104
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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137527	2020	143793	2009	146512	2009	148711	2009	152971	2023	159963	563	168651	2016
137606	1104	143794	2009	146512(,2SD636P)	2009	148712	1114 N1	152972	2009	159973	2016	168653	561
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138173	1104	143837	1122	146846	563	148756	2016	153399	2009	161016H	2009	169116	1104
138173(,M132)	1104	143940	2009	146847	2009	148756(,2SD661S)	2016	153443	2023	161021	1122	169117	1122
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142811	2009	146137	1106	148070	2062	152052	562	158242	2016	167572	1123	171040	2009
142838	2023	146139	2020	148123	1123	152284	1122	158313	1122	167688	1617	171040(SEARS)	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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171044(TOSHIBA)	2009	171558	2009	183030	2009	198072-1	2030	216445-2	1617	233944	2030	256517	2058
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A3SB	2016
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A3T918	2016
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A509Y(2S)	2023
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A514-027757	1104
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A514-047830	2020
A514-0339903	1104
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A522OR	2023
A522R	2023
A522X	2023
A522Y	2023
A523	2041
A524	2023
A526	2023
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A530B	2023
A530C	2023

DEVICE	276-
A530D	2023
A530E	2023
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A542X	2023
A542Y	2023
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A550AQ(2S)	2023
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A561-GRN	2023

DEVICE	276-
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A561-Y(2S)	2023
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A561-YL	2023
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A561Y	2023
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A562-GRN	2023
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A562-O(JAPAN)	2023
A562-O(KOREA)	2023
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A562-ORG	2023
A562-R(2S)	2023
A562-RD	2023
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A562-Y(2S)	2023
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A562Y-TM	2023
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A564-R	2023
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A564AP(2S)	2023
A564A-Q	2023
A564AQ(2S)	2023
A564A-R	2023
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A564AR(JAPAN)	2023
A564A-S	2023
A564AS(2S)	2023
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A564D	2023
A564E	2023
A564F(2S)	2023

DEVICE	276-
A564FQ(2S)	2023
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A564FR-1	2023
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A564GN	2023
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A564J(2S)	2023
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A564Y	2023
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A565B(2S)	2023
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A565C(2S)	2023
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A565GN	2023
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A568J	2023
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A568OR	2023
A568R	2023
A568X	2023
A568Y	2023
A569	2023
A569(2S)	2023
A569A	2023
A569B	2023
A569C	2023
A569D	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A569E	2023	A608KE	2023	A640M(2S)	2023	A666H(2S)	2023	A677L	2023	A705M	2023	A749C	2016
A569F	2023	A608KF	2023	A640S	2023	A666HR(2S)	2023	A677M	2023	A705OR	2023	A750	2023
A569G	2023	A608KF(JAPAN)	2023	A641	2023	A666I	2023	A677OR	2023	A705R	2023	A752(2S)	2043
A569GN	2023	A608L	2023	A641(2S)	2023	A666IQRS(2S)	2023	A677R	2023	A705X	2023	A753-4004-248	2023
A569H	2023	A608M	2023	A641(PBP)	2023	A666QRS	2023	A677X	2023	A705Y	2023	A754(2S)	2027
A569J(2S)	2023	A608NP	2023	A641A(2S)	2023	A666R(2S)	2023	A677Y	2023	A709	2023	A755(2S)	2027
A569K	2023	A608OR	2023	A641B(2S)	2023	A666S(2S)	2023	A678(2S)	2023	A714	2043	A755B(2S)	2027
A569L	2023	A608P	2023	A641BL	2023	A666Y	2023	A678-O	2023	A714-L	2043	A755C(2S)	2027
A569M	2023	A608R	2023	A641C(2S)	2023	A667-G	2009	A678-OR	2023	A714L	2043	A758	2043
A569OR	2023	A608SP	2023	A641D(2S)	2023	A667-GRN	2016	A678A	2023	A718(2S)	2023	A758(2S)	2043
A569R	2023	A608X	2023	A641G	2023	A667-O	2030	A678B	2023	A719(2S)	2023	A758A	2043
A569X	2023	A608Y	2023	A641GR	2023	A667-ORG	2016	A678C	2023	A719-Q	2023	A758B	2043
A569Y	2023	A609(2S)	2023	A641K	2023	A667-RED	2016	A678D	2023	A719K	2023	A759(2S)	2023
A570(2S)	2023	A609A(2S)	2023	A641L	2023	A667-Y	2009	A678E	2023	A719NC	2023	A759A	2023
A570A(TRANS)	2023	A609B(2S)	2023	A641L(2S)	2023	A667-YEL	2016	A678F	2023	A719O	2023	A759B	2023
A570B(TRANS)	2023	A609C(2S)	2023	A641M(2S)	2023	A667RED	2016	A678G	2023	A719PQR	2023	A760	2023
A570C(TRANS)	2023	A609D(2S)	2023	A641O	2023	A668-G	2009	A678GN	2023	A719Q(2S)	2023	A763	2023
A570D(TRANS)	2023	A609E(2S)	2023	A641OR	2023	A668-GRN	2016	A678H	2023	A719R(2S)	2023	A767	2023
A570E(TRANS)	2023	A609F(2S)	2023	A641R	2023	A668-O	2030	A678J	2023	A719S(2S)	2023	A768	2027
A570F	2023	A609G(2S)	2023	A641S	2023	A668-ORG	2016	A678K	2023	A720(2S)	2023	A768G	2027
A570G	2023	A609GN	2023	A641Y	2023	A668-Y	2009	A678L	2023	A720-G	2023	A768O	2027
A570GN	2023	A609J	2023	A642	2023	A668-YEL	2016	A678M	2023	A720-O	2023	A768Y	2027
A570H	2023	A609K	2023	A642(2S)	2023	A669-G	2009	A678OR	2023	A720-Q	2023	A772B1	2016
A570J	2023	A609L	2023	A642-254	2016	A669-GRN	2016	A678R	2023	A720-R	2023	A772EH	2016
A570K	2023	A609M	2023	A642-260	2016	A669-Y	2009	A678X	2023	A720A	2023	A772FE	2016
A570L	2023	A609OR	2023	A642-268	2016	A669-YEL	2016	A678Y	2023	A720B	2023	A774	2023
A570M(TRANS)	2023	A609R	2023	A642A(2S)	2023	A670(2S)	2027	A679(2S)	2043	A720C	2023	A774A	2023
A570OR	2023	A609Y	2023	A642B(2S)	2023	A670A(2S)	2027	A679-R	2043	A720D	2023	A782	2023
A570R	2023	A610	2023	A642C(2S)	2023	A670B(2S)	2027	A679-Y	2043	A720L	2023	A786	2023
A570X	2023	A610(2S)	2023	A642D(2S)	2023	A670C(2S)	2027	A680(2S)	2043	A720NC	2023	A786 Q	2023
A570Y	2023	A611	2023	A642E(2S)	2023	A672	2023	A680-R	2043	A720Q(2S)	2023	A786Q	2023
A572	2041	A611(2S)	2023	A642F(2S)	2023	A672A(2S)	2023	A680-Y	2043	A720QR	2023	A786QL	2023
A572(2S)	2023	A615-1012	1123	A642G	2023	A672B(2S)	2023	A685	2023	A720R(2S)	2023	A786R	2023
A572-1	2041	A620	2023	A642GN	2023	A672C(2S)	2023	A691M4	1122	A720S(2S)	2023	A787	2023
A572Y	2023	A621	2023	A642H	2023	A673(2S)	2023	A691M5	1122	A720Y	2023	A788	2023
A573	2023	A628(2S)	2023	A642J	2023	A673-C	2023	A691M5-2	1122	A721(2S)	2023	A798	2023
A575	2023	A628-O	2023	A642K	2023	A673-D	2023	A692T5	1104	A721Q	2023	A800	1114
A576-0001-002	2023	A628-OR	2023	A642L	2023	A673-O	2023	A692T5-O	1104	A721R	2023	A800-523-01	2023
A576-0001-013	2023	A628A(2S)	2023	A642L(2S)	2023	A673-OR	2023	A692X13-4	1123	A721S(2S)	2023	A800-523-02	2023
A578(2S)	2023	A628A(JAPAN)	2023	A642M	2023	A673A(2S)	2023	A692X16-O	1104	A721T(2S)	2023	A800-527-00	2023
A579(2S)	2023	A628AA	2023	A642OR	2023	A673A(JAPAN)	2023	A693	2023	A721U(2S)	2023	A811	2023
A593	1617	A628AD	2023	A642R	2023	A673AB(2S)	2023	A693C	2023	A722(2S)	2023	A811A	2023
A600	1104	[illegible]	2023	A642S	2016	A673AC(2S)	2023	A696(2S)	2023	A722S(2S)	2023	A811C5	2023
A600(RECTIFIER)	1104	A628AE	2023	A642S(2S)	2023	A673AC(JAPAN)	2023	A696D(2S)	2023	A723(2S)	2023	A811C6	2023
A603	2023	A628AF	2023	A642V	2023	A673AD(2S)	2023	A697(2S)	2023	A723R	2023	A811C7	2023
A603(2S)	2023	A628B	2023	A642W(2S)	2023	A673AK	2023	A697C(2S)	2023	A725(2S)	2023	A811C8	2023
A603A	2023	A628C	2023	A642X	2023	A673AKA	2023	A700(2S)	2027	A725EH2AB1	1114	A812	2023
A603B	2023	A628D(2S)	2023	A642Y	2023	A673AKB	2023	A700B(2S)	2027	A725Y	2023	A812M3	2023
A603C	2023	A628E(2S)	2023	A644L	2016	A673AKC	2023	A700Y(2S)	2027	A726(2S)	2023	A812M4	2023
A603D	2023	A628EF	2023	A644S	2016	A673AKD	2023	A701	2023	A726Y	2023	A812M5	2023
A603E	2023	A628F(2S)	2023	A645L	2016	A673AS(2S)	2023	A701F(2S)	2023	A728	2023	A812M6	2023
A603F	2023	A628G	2023	A645S	2016	A673B(2S)	2023	A701F0	2023	A728A	2023	A812M7	2023
A603G	2023	A628GN	2023	A648(2S)	2043	A673C(2S)	2023	A701FJ(2S)	2023	A733	2023	A825(2S)	2023
A603GN	2023	A628H	2023	A649	2043	A673C(JAPAN)	2023	A701FO(2S)	2023	A733(2S)	2023	A825Q	2023
A603H	2023	A628J	2023	A649A	2043	A673C2(2S)	2023	A702(2S)	2023	A733-P	2023	A825R	2023
A603J	2023	A628K	2023	A649L	1617	A673D(2S)	2023	A704	2023	A733-Q	2023	A825S	2023
A603K	2023	A628L	2023	A649S	1617	A673D(JAPAN)	2023	A704A	2023	A733A(2S)	2023	A826	2023
A603L	2023	A628M	2023	A650	2043	A673E	2023	A704B	2023	A733AK	2023	A826P	2023
A603M	2023	A628OR	2023	A651	2043	A673F	2023	A704C	2023	A733AP	2023	A826Q	2023
A603OR	2023	A628R	2023	A659(2S)	2023	A673G	2023	A704D	2023	A733AP(JAPAN)	2023	A826R	2023
A603R	2023	A628X	2023	A659A	2023	A673GN	2023	A704E	2023	A733AQ	2023	A826S	2023
A603X	2023	A628Y	2023	A659B	2023	A673H	2023	A704F	2023	A733AQ(JAPAN)	2023	A828A	2023
A603Y	2023	A629(2S)	2023	A659D(2S)	2023	A673J	2023	A704G	2023	A733H(2S)	2023	A829	2023
A608	2023	A629A	2023	A659E(2S)	2023	A673K	2023	A704GN	2023	A733IO	2023	A829A	2023
A608(2S)	2023	A629B	2023	A659F(2S)	2023	A673L	2023	A704H	2023	A733IQ(2S)	2023	A829B	2023
A608-D	2023	A629C	2023	A659G	2023	A673M	2023	A704J	2023	A733P(2S)	2023	A829C	2023
A608-C(2S)	2023	A629D	2023	A659L	2023	A673OR	2023	A704K	2023	A733PQ	2023	A829D	2023
A608-E(2S)	2023	A629E	2023	A659P	2023	A673R	2023	A704L	2023	A733Q(2S)	2023	A829E	2023
A608-F(2S)	2023	A629F	2023	A659R	2023	A673X	2023	A704M	2023	A733Q1P(2S)	2023	A829F	2023
A608-O	2023	A629G	2023	A659Y	2023	A673Y	2023	A704OR	2023	A733QP	2023	A833	2023
A608-OR	2023	A629GN	2023	A661(2S)	2023	A675(2S)	2023	A704R	2023	A733R(2S)	2023	A836(2S)	2023
A608A(2S)	2023	A629H	2023	A661-GR	2023	A677(2S)	2023	A704X	2023	A733Y(KOREA)	2023	A836C	2023
A608AE	2023	A629J	2023	A661-O(2S)	2023	A677-0	2023	A704Y	2023	A735	2023	A836D(2S)	2023
A608AF	2023	A629K	2023	A661-R	2023	A677-O	2023	A705	2023	A744(2S)	2043	A836E(2S)	2023
A608B(2S)	2023	A629L	2023	A661-Y	2023	A677-OR	2023	A705(2S)	2023	A745	2043	A836F	2023
A608BL	2023	A629M	2023	A661Y(2S)	2023	A677A	2023	A705A	2023	A745A	2043	A838	2023
A608C(2S)	2023	A629OR	2023	A663(2S)	2043	A677B	2023	A705B	2023	A746(2S)	2043	A838B	2023
A608D(2S)	2023	A629R	2023	A663-BL	2043	A677C	2023	A705C	2023	A747	2043	A838C	2023
A608E(2S)	2023	A629X	2023	A663-R	2043	A677D	2023	A705D	2023	A747(2S)	2043	A841	2023
A608E(JAPAN)	2023	A629Y	2023	A663-Y	2043	A677E	2023	A705E	2023	A747A	2043	A841(2S)	2023
A608F(2S)	2023	A640	2023	A666(2S)	2023	A677F	2023	A705F	2023	A747A(2S)	2043	A841-BL	2023
A608F(JAPAN)	2023	A640(2S)	2023	A666A(2S)	2023	A677G	2023	A705G	2023	A747B	2016	A841-GR	2023
A608G(2S)	2023	A640A(2S)	2023	A666B	2023	A677GN	2023	A705GN	2023	A748	2027	A842	2023
A608GN	2023	A640B(2S)	2023	A666BL	2023	A677H	2023	A705H	2023	A748B	1617	A842(2S)	2023
A608H	2023	A640C(2S)	2023	A666C	2023	A677HL	2023	A705J	2023	A748C	2016	A842-BL	2023
A608J	2023	A640D(2S)	2023	A666D	2023	A677J	2023	A705K	2023	A749	1617	A842-GR	2023
A608K	2023	A640L	2023	A666E	2023	A677K	2023	A705L	2023	A749B	1617	A844	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A844(2S)	2023	A952M(JAPAN)	2023	A1083D	2023	A2470	1617	A118284	2023	A1473597-1	2023	A6707298	2009
A844C	2023	A953	2023	A1083E	2023	A2471	2030	A119730	2023	A2006681-95	2016	A6708303	2009
A844C(JAPAN)	2023	A954	2023	A1086	2009	A2473	1123	A-120018	2030	A2057013-0004	2023	A6708850	2009
A844D(2S)	2023	A970	2023	A1087	2009	A2474	563	A-120077	563	A2057013-0701	2023	A6708861	2009
A844D(JAPAN)	2023	A973	2023	A1090	2023	A2476	1123	A-120125(PWR.RECT.)		A2057013-0702	2023	A6708871	2009
A844E(2S)	2023	A978	2023	A1092	2023	A2479	2016		1114	A2057013-0703	2023	A6708871(,2SC388ATM)	
A844F	2023	A980	2043	A1100	2023	A2480	2016	A-120278	1617	A2092693-0724	2016		2009
A850	2023	A981	2043	A1100D	2023	A2481	1104	A-120327	2041	A2092693-0725	2016	A6708871	
A854	2023	A982	2043	A1100F	2023	A2485	1104	A-120417	2023	A2498512	2023	(,2SC388ATMFA)	2009
A854-Q	2023	A984	2023	A1100L	2023	A2498	2016	A121467	2023	A3011112	2030	A6733280	2016
A854G	2023	A984(JAPAN)	2023	A1109	2016	A2499	1617	A121659	2023	A3115621	1102	A6733340	2009
A854Q	2023	A984E	2023	A1115	2023	A2652-919	2035	A124047	2023	A3115690	1104	A6733560	2009
A854Q(JAPAN)	2023	A984K	2023	A1115-E	2023	A2746	2016	A124623	2016	A5010005	1122	A6734590	2009
A854QE	2023	A984KF(JAPAN)	2023	A1115-F	2023	A2798	2023	A124624	2016	A5320111	2023	A6734592	2009
A854P	2023	A987	2023	A1115E	2023	A3513	2023	A124755	2023	A5768475	1104	A6754194H	2016
A855	2023	A990	2023	A1128	2023	A3540	2023	A-125278	561	A6314340	2020	A6771373	2055
A856	2023	A991	2023	A1150	2023	A3549	2023	A125329	2016	A6314440	2009	A6823565	2020
A856A	2023	A991-01-0098	2023	A1150Y	2023	A3559	2023	A-125332	1617	A6314446	2009	A6841420	2020
A859	2023	A991-01-1225	2023	A1152	2023	A3562	2023	A126524	2023	A6314446(,2SC1627-		A6841440	2020
A866	2023	A991-01-1316	2016	A1153	2023	A3563	2023	A126700	2023	YFA)	2009	A6846801	2055
A866Y	2023	A991-01-1319	2023	A1164	2023	A3574	2023	A126707	2023	A6317420	2009	A6846806	2055
A866YG	2023	A991-01-3058	2023	A1170	2016	A3581	2023	A126715	2023	A6317440	2009	A6846860	2055
A868	2023	A993	2023	A1174	2023	A4086	2023	A126718	2023	A6317460	2009	A6848520	2020
A869	2023	A999	2023	A1175	2023	A4087	2023	A126719	2023	A6317460(,2SC1815-GR)		A6865553	2055
A870	2023	A999L	2023	A1175(JAPAN)	2023	A4126	2023	A129509	2016		2009	A7000900	1123
A876HA	2023	A1000	1114	A1175-F	2023	A4212-A	1104	A129510	2016	A6317480	2009	A7001800	1123
A876HB	2023	A1001	2043	A1175E	2023	A4212A	1114	A129511	2016	A6317480(,2SC1815BL)		A7001957	1123
A876HC	2023	A1002	2043	A1175F	2023	A4310	2023	A129512	2016		2009	A7109473	565
A880	2023	A1004	2023	A1175F(JAPAN)	2023	A4442	2023	A129513	2016	A6317520	2009	A7109890	561
A882	2043	A1005	2023	A1175FH	2023	A4745	2023	A129571	2016	A6317526	2009	A7110023	565
A888	2023	A1012	2027	A1175H	2023	A4789	2016	A129572	2016	A6317526(,2SC1815-		A7110040	565
A889	2023	A1012-Y	2027	A1175H(JAPAN)	2023	A4802-00004	2023	A129573	2016	OFA)	2009	A7110041	565
A890	2023	A1012Y(JAPAN)	2027	A1175J	2023	A4815	2023	A129574	2016	A6317540	2009	A7110055	561
A891	2023	A1015	2023	A1214	2023	A4822-130-40348	2023	A129697	2023	A6317547	2009	A7110076	561
A901	2023	A1015-0	2023	A1238	2016	A4844	2023	A129699	2023	A6317547(,2SC1815-Y)		A7110077	561
A902	2023	A1015-O	2023	A1246	2023	A4851	2016	A130139	2023		2009	A7110263	562
A903	2023	A1015-O(JAPAN)	2023	A1246R	2023	A5226-1	2023	A-132591	1143	A6317547(,2SC1815-		A7110410	563
A906	2023	A1015-O(KOREA)	2023	A1246S	2023	A5640R	2023	A-134166-2	563	YFA)	2009	A7110411	563
A906(2S)	2023	A1015-OFA	2023	A1246S(JAPAN)	2023	A8405	2023	A190429	2023	A6317560	2009	A7110412	563
A909-1015	1123	A1015-Y	2023	A1246T	2023	A8540	2023	A489751-028	2023	A6317562	2009	A7110508	564
A909-1016	1123	A1015-YFA	2023	A1246U	2023	A8867	2023	A489751-031	2023	A6317567	2009	A7110509	564
A909-1017	1123	A1015FA	2023	A1264T	2023	A9218	1122	A610074-1	2023	A6317567(,2SC1815-		A7150041	1122
A909-1018	1104	A1015G	2023	A1314	2030	A9228-3	1122	A610083	2023	GRFA)	2009	A7150258	1122
A909-1019	1104	A1015GR	2023	A1341	2030	A10105	1104	A610083-1	2023	A6317567(,2SC1815GR)		A7150351	1122
A909-27125-160	2016	A1015GR(JAPAN)	2023	A1379	1617	A10113	1104	A610083-2	2023		2009	A7246602	1122
A916-31025-58	2016	A1015O	2023	A1380	1617	A10118	1104	A610083-3	2023	A6317581	2009	A7246602(,1S1553(TV))	
A921-59B	2016	A1015Y	2023	A1412-1	1617	A10164	1104	A610110-1	2023	A6317581(,2SC1815-BL)			1122
A921-62B	2016	A1015Y(JAPAN)	2023	A1418	2016	A10165	1104	A610120-1	2023		2009	A7246653	1122
A921-63B	2016	A1015Y(KOREA)	2023	A1460	2016	A10169	1104	A631790L	2055	A6317900	2055	A7246653(,1S1554)	
A921-64B	2016	A1016	2023	A1462	2016	A11744	2035	A650232E	2023	A6317901	2055		1122
A921-70B	2023	A1016K	2023	A1472-19	1617	A11745	2035	A650235G	2023	A6319300	2009	A7246700	1122
A927	2023	A1023	2023	A1518	2016	A12594	2023	A650238A	2023	A6319302	2009	A7246703	1122
A929	2023	A1023P	2023	A1519	2016	A-12791	2020	A650372D	2023	A6319302(,2SC1959-Y)		A7246711	1122
A929G	2023	A1023Q	2023	A1520	2016	A12888	2023	A650923F	2023		2009	A7246711(,1S1555(TV))	
A929H	2023	A1025D	2023	A1521	2016	A20371	1123	A650925H	2023	A6321241	2009		1122
A930	2023	A1025E	2023	A1558-17	2023	A20372	1617	A670720K	2009	A6333751	2058	A7246727	1122
A933	2023	A1026	2023	A-1567	1617	A22008	2023	A670722D	2009	A6502380	2023	A7249601	1122
A933AQ	2023	A1026(2S)	2023	A1567	1617	A24015	1122	A670729B	2009	A6509120	2023	A7275400	1122
A933AR	2023	A1027(2S)	2023	A1567-1	1617	A24100	1617	A673351K	2009	A6509121	2023	A7283550	1122
A933Q	2023	A1027R	2023	A1844-17	2023	A30270	2023	A673354K	2009	A6509121(,2SA562TM-		A7286100	561
A933Q(JAPAN)	2023	A1028	2043	A-1854-0492-1	1617	A30290	2023	A673355H	2009	O)	2023	A7286107	561
A933QY	2023	A1029	2023	A1867-17	2023	A36508	1123	A673355K	2009	A6509140	2023	A7286120	561
A933R	2023	A1029B	2023	A1946	1104	A36539	563	A675419H	2016	A6509141	2023	A7287500	563
A933R(JAPAN)	2023	A1029C	2023	A2057A2-198	2023	A41440	2023	A701584-00	2023	A6509141(,2SA562TM-		A7287513	563
A933S	2023	A1029D	2023	A2057B2-115	2016	A59625-1	2023	A701589-00	2023	YFA)	2023	A7509201	1104
A933S(JAPAN)	2023	A1030	2023	A2057B106-12	2023	A59625-2	2023	A711002	565	A6532300	2023	A7547053	1104
A937	2023	A1030B	2023	A2057B108-6	2023	A59625-3	2023	A758011	1114	A6532921	2023	A7568160	1104
A937-1	1617	A1030C	2023	A2332	2016	A59625-4	2023	A759500	1114	A6532941	2023	A7568250	1104
A937-3	1617	A1040	2023	A2410	1617	A59625-5	2023	A772738	2016	A6532941(,2SA950-Y)		A7568300	1104
A937-Q	2023	A1042	2043	A2411	1617	A59625-6	2023	A772739	2016		2023	A7568460	1104
A937R	2023	A1045	2043	A2412	1617	A59625-7	2023	A815199	2023	A6533730	2027	A7568475	1104
A937R(JAPAN)	2023	A1046	2043	A2413	1617	A59625-8	2023	A815199-6	2023	A6534020	2023	A7568487	1104
A941	2023	A1048	2023	A2418	2041	A59625-9	2023	A815211	2023	A6534021	2023	A7568500	1102
A942	2023	A1048(JAPAN)	2023	A2419	1123	A59625-10	2023	A815213	2023	A6534021(,2SA1015-O)		A7568521	1102
A950	2023	A1048-GR	2023	A2430	1123	A59625-11	2023	A815229	2023		2023	A7568700	1103
A950-0	2023	A1048-O	2023	A2422	1104	A59625-12	2023	A815247	2023	A6534040	2023	A7568719	1103
A950-O	2023	A1048-O(JAPAN)	2023	A2423	1104	A71687-1	2023	A970246	2023	A6534040(,2SA1015-Y)		A7568752	1103
A950-Y	2023	A1048GR	2023	A2428	2023	A75680	1104	A970248	2023		2023	A7568754	1103
A950FA	2023	A1048GR(JAPAN)	2023	A2434	1617	A78331	2023	A970251	2023	A6534045	2023	A7570013-01	2023
A950Y	2023	A1048O	2023	A2448	2023	A94037	2023	A970254	2023	A6534045(,2SA1015-Y)		A7572100	1104
A950Y(JAPAN)	2023	A1048Y	2023	A2460	1104	A95227	2023	A984193	2023		2023	A7572200	1104
A950Y(KOREA)	2023	A1049	2023	A2461	1104	A95232	2023	A1471114-1	2023	A6534045(,2SA1015-		A7576004-01	2023
A952	2023	A1050	2023	A2464	2016	A112363	2041	A1473563-1	2023	YFA)	2023	A7580111	1114
A952(JAPAN)	2023	A10[illegible]1D	2023	A2465	2016	A-113110	2023	A1473570-1	2023	A6534060	2023	A7580310	1114
A952K	2023	A10[illegible]1E	2023	A2466	1617	A-113367(DIODE)	1122	A1473574-1	2023	A6534063	2023	A7580660	1104
A952L	2023	A10[illegible]2D	2023	A2468	1617	A116078	2023	A1473590-1	2023	A6610160	2027	A7682052	1104
A952L(JAPAN)	2023	A10[illegible]2E	2023	A2469	1617	A-118038	1114	A1473591-1	2023	A6707244	2009	A7978850	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
A7978855	1104	AB800	1114	AH810	1114	AM161039H	2009	AP9.1A	562	AR213VIOLET	2016	AT338	2016
A7986480	1103	AB1000	1114	AH814	1114	AM161043H	2027	AP9.1B	562	AR218	2058	AT339	2030
A11159761	1122	AC03BGML	1000	AH815	1114	AM161050H	2023	AP12.0A	563	AR218(RO)	2016	AT340	2016
A-11790169	1122	AC03BGMR	1000	AH1005	1114	AM162005A	1104	AP12.0B	563	AR218RO	2016	AT341	2016
A20030703-0702	2023	AC03DGML	1000	AH1010	1114	AMF104	2041	AP15.0A	564	AR219	2016	AT342	2016
A23114050	2023	AC03DGMR	1000	AH1015	1114	AMF105	2041	AP15.0B	564	AR219(YY)	2016	AT343	2016
A23114051	2023	AC08BGML	1000	AIE	2016	AMF115	2041	APD4.7A	565	AR219YY	2016	AT344	2016
A23114550	2023	AC10BGML	1000	AJ5	1104	AMF116	2041	APD4.7B	565	AR220	2016	AT345	2016
A43023843	2041	AC10BGMR	1000	AJ10	1104	AMF117	2041	APD5.1A	565	AR220(GY)	2016	AT346	2016
A43023845	2023	AC30	1114	AJ15	1104	AMF117A	2041	APD5.1B	565	AR220GREEN	2016	AT347	1617
A75779500	1114	AC50	1114	AJ20	1104	AMF118	2041	APD6.2A	561	AR220GY	2016	AT348	1617
A80052402	2041	AC50(DIODE)	1122	AJ25	1104	AMF118A	2041	APD6.2B	561	AR220YELLOW	2016	AT349	1617
A80414120	2041	AC50(RECTIFIER)	1141	AJ30	1104	AMF119	2041	APD9.1A	562	AR221	2016	AT353	1617
A80414130	2041	AC100	1114	AJ35	1104	AMF119A	2041	APD9.1B	562	AR222	2016	AT354	1617
AA-07089	1617	AC200	1114	AJ40	1104	AMF120	2041	APD12.0A	563	AR222(BY)	2016	AT355	2016
AA50	1104	AC300	1144	AJ50	1104	AMF120A	2041	APD12.0B	563	AR222BLUE	2016	AT356	2016
AA100	1104	AC400	1144	AJ60	1104	AMF-121	2041	APD15.0A	564	AR222BY	2016	AT370	1617
AA101	1067	AC9082	2023	AK261	1123	AMF201	2041	APD15.0B	564	AR222YELLOW	2016	AT380	2030
AA102	1067	AC9083	2023	ALS-8922	1617	AMF210	2041	APD3595	1102	AR224	2016	AT381	2030
AA107	1067	AC9084	2023	AM	2030	AMF210A	2041	AQ2	2030	AR224WHITE	2016	AT382	2030
AA108	1067	AC9085	2023	AM005	1104	AM-G-5	1104	AQ2(PHILCO)	1104	AR224YELLOW	2016	AT383	2030
AA109	1067	ACDC9000-1	2023	AM010	1104	AM-G-5A	1114	AQ3	2030	AR244	2027	AT384	2030
AA111	1123	ACR83-1007	1123	AM020	1104	AM-G-5C	1114	AQ3(PHILCO)	1104	AR303	2009	AT385	2030
AA112	1123	ACR83-1008	1104	AM025	1104	AM-G-22	1104	AQ4	1617	AR306	1617	AT386	2030
AA112P	1123	ACR810-107	1123	AM030	1104	AMX3548	1740	AQ5	2030	AR306BLUE	2030	AT387	2030
AA113	1123	ACR810-108	1104	AM035	1104	AMX3582	2020	AQ6	1617	AR306ORANGE	2030	AT388	2030
AA113P	1123	AD10	1104	AM040	1104	AMX3583	2016	AR7C	1104	AR313	2016	AT400	1617
AA114	1123	AD29	1114	AM050	1104	AMX3584	1604	AR15	2041	AR343	2009	AT401	1617
AA115	1067	AD30	1122	AM060	1104	AMX3655	1802	AR16	1104	AR882	1104	AT402	1617
AA116	1123	AD50	1104	AM06200013	1122	AMX3799	2043	AR-17	2020	AS-2	1104	AT403	1617
AA116(SRC)	1067	AD100	1104	AM06200014	1104	AMX3867	2520	AR17GREY	2020	AS2	1104	AT404	1617
AA117	1123	AD100(DIODE)	1122	AM06200017	1123	AMX3868	2521	AR19	1104	AS-3	1104	AT405	1617
AA118	1123	AD110A	1122	AM06200065	1114	AMX4178	2009	AR20	1104	AS3	1104	AT406	1617
AA118P	1123	AD150(DIODE)	1122	AM3	1104	AMX4200	1712	AR21	1104	AS3A	1141	AT407	1617
AA119	1123	AD200	1104	AM13	1104	AMX4200(,LM339)	1712	AR22	1104	AS3B	1143	AT410	2023
AA119P	1123	AD200(DIODE)	1122	AM23	1104	AMX4258	007	AR-22(DIO)	1104	AS3C	1143	AT410-1	2023
AA120	1123	AD411	1122	AM-33	1104	AMX4258(,741C)	007	AR22(RECTIFIER)	1104	AS3D	1144	AT412	2023
AA121	1123	AD4001	1104	AM33	1104	AMX4263	1617	AR-22(XSTR)	2020	AS-4	1104	AT412-1	2023
AA123	1123	AD4002	1114	AM43	1104	AMX4330	2023	AR23	1114	AS4	1104	AT413	2023
AA130	1123	AD4003	1114	AM53	1104	AMX4331	2068	AR-23(DIO)	1114	AS-5	1104	AT413-1	2023
AA131	1123	AD4004	1114	AM62	1104	AMX4577	1771	AR-23(XSTR)	2027	AS5	1104	AT414	2023
AA132	1123	AD4005	1114	AM63	1104	AMX4661	038	AR-24	1114	AS6	1104	AT414-1	2023
AA134	1123	AD4006	1114	AM65	1104	AN-1	1104	AR24	1114	AS11	1104	AT415	2023
AA135	1123	AD4007	1114	AM66	1104	AN78M05	1770	AR24(PHILCO)	2017	AS-14	1104	AT415-1	2023
AA136	1123	ADX0214	561	AM300	1122	AN78M05LB	1770	AR24(XSTR)	2020	AS-15	1104	AT416	2023
AA137	1123	ADX1148	1104	AM300A	1122	AN78M12	1771	AR24RED	2020	AS15	1104	AT416-1	2023
AA138	1123	ADX1152	1122	AM301	1122	AN78M12(LB)	1771	AR-25	2027	ASY70-V	1617	AT417	2023
AA139	1123	ADX1364	1122	AM301A	1122	AN78M12-LB	1771	AR25(G)	2027	ASZ12	563	AT417-1	2023
AA140	1123	ADX1474	1143	AM302	1122	AN78M12LB	1771	AR27GREEN	2027	ASZ15	564	AT418	2023
AA142	1123	AE1A	1114	AM302A	1122	AN78M15	1772	AR28	2020	AT0017	2009	AT418-1	2023
AA143	1123	AE1B	1114	AM303	1122	AN78M15(LB)	1772	AR28RED	2020	AT0025	2009	AT419	2023
AA143S	1123	AE1C	1114	AM303A	1122	AN78M15LB	1772	AR-30	2020	AT0025A	2009	AT419-1	2023
AA144	1123	AE1D	1114	AM304	1122	AN1458	038	AR30	2020	AT0045	2009	AT420	1617
AA200	1104	AE1E	1114	AM304A	1122	AN1741	007	AR35	2020	AT-7	2030	AT421	1617
AA210	1123	AE1F	1114	AM305	1122	AN6352	038	AR37GREEN	2027	AT-10	2041	AT422	1617
AA218	1123	AE1G	1114	AM305A	1122	AN6552	038	AR38	2020	AT-11	2023	AT423	1617
AA300	1104	AE3A	1141	AM306	1122	AN6553	038	AR38RED	2020	AT-12	2030	AT424	1617
AA400	1104	AE3B	1143	AM306A	1122	AN6558	038	AR44	2027	AT12	2030	AT425	1617
AA500	1104	AE3C	1143	AM307	1122	AN6570	007	AR107	1617	AT-12(PHILCO)	2030	AT426	1617
AA600	1104	AE3D	1144	AM307A	1122	AN6572	038	AR108	1617	AT310	2016	AT427	1617
AA779	1123	AE10	1122	AM308	1122	AN6912	1712	AR-200	1617	AT311	2016	AT430	2023
AA800	1114	AE30	1122	AM308A	1122	AN6912N	1712	AR200	2016	AT312	2016	AT430-1	2023
AA1000	1114	AE50	1122	AM324D	1711	AN7805	1770	AR200(W)	2009	AT313	2016	AT431	2023
AAY12	1123	AE100	1122	AM324N	1711	AN7812	1771	AR200W	2016	AT314	2016	AT431-1	2023
AAY14	1123	AE150	1122	AM405	1104	AND104R	033	AR200WHITE	2009	AT315	2016	AT432	2023
AAY15	1123	AE200	1122	AM410	1104	AND123R	026	AR-201	1617	AT316	2016	AT432-1	2023
AAY18	1123	AE920	703	AM415	1104	AO4092	1104	AR201	2016	AT318	2016	AT433	2023
AAY22	1123	AF699	2023	AM420	1104	AO4092A	1104	AR201(Y)	2009	AT319	2016	AT433-1	2023
AAY27	1123	AF3570	2023	AM425	1104	AO4092B	1104	AR201Y	2016	AT321	2016	AT434	2023
AAY30	1123	AF3590	2023	AM430	1104	AO4093	1104	AR201YELLOW	2009	AT322	2016	AT434-1	2023
AAY33	1123	AF21490	2023	AM435	1104	AO4093-A	1104	AR-202	1617	AT323	2016	AT435	2023
AAY46	1123	AFC3527	2009	AM440	1104	AO4093A	1104	AR202	2016	AT324	2016	AT435-1	2023
AAY53	1123	AFCS1170F	2023	AM445	1104	AO4166-2	564	AR202G	2016	AT325	2016	AT436	2023
AAY54	1123	AFS-160-1017	1123	AM450	1104	AO4210A	1104	AR202GREEN	2009	AT326	2016	AT436-1	2023
AAY139	1123	AFS-160-1020	1123	AM460	1104	AO4212-A	1104	AR203	2030	AT327	2016	AT437	2023
AAZ10	1123	AFS-160-1021	1104	AM620	1122	AO4212-B	1104	AR203R	2030	AT328	2016	AT437-1	2023
AAZ18	1123	AFS-760-1017	1123	AM620A	1122	AO4233	1104	AR204	1617	AT329	1617	AT438	2023
AAZ18D	1104	AFS24226	2023	AM626	1122	AO4234-2	562	AR205	1617	AT330	2016	AT438-1	2023
AB1-9	562	AFT0019M	2023	AM626A	1122	AO4716	1104	AR206	1617	AT331	2023	AT440	2030
AB50	1114	AFT052	2023	AM632	1122	AO4727	1101	AR208	1617	AT331A	2023	AT441	2030
AB100	1114	AFT1341	2023	AM632A	1122	AO4901A	1104	AR209	2016	AT332	2023	AT442	2030
AB200	1114	AFT1746	2023	AM3235	2041	AP4.7A	565	AR210	2016	AT332A	2023	AT443	2030
AB300	1114	AG30	1122	AM161011H	2009	AP4.7B	565	AR211	2016	AT333	2023	AT444	2030
AB400	1114	AG100D	1104	AM161011J	2009	AP6.0A	561	AR212	2016	AT335	1617	AT445	2030
AB500	1114	AG100G	1104	AM161015H	2023	AP6.0B	561	AR213	2016	AT335A	2023	AT446	2030
AB600	1114	AG100J	1104	AM161016H	2009	AP6.2A	561	AR213(V)	2016	AT336	1617	AT451	2023
AB700	1114	AH805	1114	AM161038H	2009	AP6.2B	561	AR213V	2016	AT337	1617	AT451-1	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
AT452	2023	B1A5	1104	B3C5	1104	B5M1	1114	B-31	1104	B442-40	1173	B643S	2023
AT452-1	2023	B1A9	1104	B3C9	1104	B5M5	1114	B31	1104	B507(2S)	2027	B644	2023
AT453	2023	B1B	1104	B3D1	1104	B5M9	1114	B35C600	1104	B507E	2027	B644-Q	2023
AT453-1	2023	B1B1	1104	B3D5	1104	B6A1	1114	B41-04	1104	B508(2S)	2027	B644-R	2023
AT454	2023	B1B5	1104	B3D9	1104	B6A5	1114	B42-04	1104	B509(2S)	2027	B644-R(JAPAN)	2023
AT454-1	2023	B1B9	1104	B3D753A	561	B6A9	1114	B43-04	1104	B511(2S)	2027	B644Q	2023
AT455	2023	B1C1	1104	B3D757A	562	B6B1	1114	B-46-110	1122	B511-1(2S)	2027	B644QR	2023
AT455-1	2023	B1C5	1104	B3D759A	563	B6B5	1114	B51	1104	B511C(2S)	2027	B644R	2023
AT470	2030	B1C9	1104	B3E1	1104	B6B9	1114	B56-15	1143	B511D(2S)	2027	B644S	2023
AT471	2030	B1D	2020	B3E5	1104	B6C1	1114	B56-33	1143	B511E	2027	B654-5	1173
AT472	2030	B1D1	1104	B3E9	1104	B6C5	1114	B60C300	1104	B512(2S)	2027	B654-10	1173
AT473	2030	B1D5	1104	B3F1	1104	B6C9	1114	B-66	2009	B512-0	2027	B654-20	1173
AT474	2030	B1D9	1104	B3F5	1104	B6D1	1114	B66X0033-00	1104	B512-O	2027	B654-30	1173
AT475	2030	B1E1	1104	B3F9	1104	B6D5	1114	B66X0041-001	1101	B512A(2S)	2027	B654-40	1173
AT476	2030	B1E5	1104	B3G1	1104	B6D9	1114	B81-004	1104	B512P	2027	B692X13	1123
AT477	2030	B1E9	1104	B3G5	1104	B6E1	1114	B172-5	1114	B513(2S)	2027	B696	2043
AT478	2030	B1F1	1104	B3G9	1104	B6E5	1114	B172-10	1114	B513A(2S)	2027	B698	2023
AT479	2030	B1F5	1104	B3H1	1114	B6E9	1114	B172-20	1114	B513P	2027	B698F	2023
AT490	1617	B1F9	1104	B3H5	1114	B6F1	1114	B172-30	1114	B513Q	2027	B699	2027
AT491	1617	B1G1	1104	B3H9	1114	B6F5	1114	B172-40	1114	B513R	2027	B699Q	2027
AT492	1617	B1G5	1104	B3K1	1114	B6F9	1114	B172-50	1114	B514(2S)	2027	B709	2023
AT493	1617	B1G9	1104	B3K5	1114	B6G1	1114	B172-60	1114	B515(2S)	2027	B709A	2023
AT494	1617	B1H	2016	B3K9	1114	B6G5	1114	B172-70	1114	B520	2043	B721	2023
AT495	1617	B1H(DIODE)	1104	B3M1	1114	B6G9	1114	B172-80	1114	B520-1	2043	B726	2023
AT520	2016	B1H(XSTR)	2016	B3M5	1114	B6H1	1114	B172-90	1114	B520-2	2043	B726R	2023
AT-1856	2041	B1H1	1114	B3M9	1114	B6H5	1114	B172-100	1114	B523	2027	B726S	2023
AT1856	2041	B1H5	1114	B-3P	1123	B6H9	1114	B200C40	1104	B524	2027	B726T	2023
AT3260	2041	B1H9	1114	B4	2016	B6K1	1114	B223-10	1114	B529	2027	B744	2023
ATC-SR-3	1114	B1J	2023	B4A1	1104	B6K5	1114	B223-30	1114	B530	2043	B744A	2023
ATC-TR-4	2030	B1K	1617	B4A5	1104	B6K9	1114	B223-40	1114	B531	2043	B744Q	2023
ATC-TR-7	2030	B1K1	1114	B4A9	1104	B6M1	1114	B223-50	1114	B531-O	2043	B744R	2023
ATC-TR-13	2030	B1K5	1114	B4B1	1104	B6M5	1114	B223-60	1114	B531-R	2043	B744S	2023
ATC-TR-15	2041	B1K9	1114	B4B5	1104	B6M9	1114	B238C18	2009	B531-Y	2043	B745	2023
ATC-TR-19	2020	B1M1	1114	B4B9	1104	B6P	2009	B250C7K45	1104	B532(2S)	2043	B745A	2023
AU2012	563	B1M5	1114	B4C1	1104	B7A1	1114	B250C75	1104	B532S	2043	B745AS	2023
AV0000105-0	1122	B1M9	1114	B4C5	1104	B7A5	1114	B250C75K4	1104	B542	2023	B745S	2023
AV5	563	B1N	1617	B4C9	1104	B7A9	1114	B250C75K5	1104	B542D	2023	B745T	2023
AV2012	563	B1U	2020	B4D1	1104	B7B1	1114	B250C75K41	1104	B555(2S)	2043	B774	2023
AV2015	564	B1W	1617	B4D5	1104	B7B5	1114	B250C75K45	1104	B555-O	2043	B774Q	2023
AW01	563	B2	2016	B4D9	1104	B7B9	1114	B250C100	1104	B555-R	2043	B774R	2023
AW01-0	561	B2A	2023	B4E1	1104	B7C1	1114	B250C100TD	1104	B555R	2043	B774S	2023
AW01-08	561	B2A1	1104	B4E5	1104	B7C5	1114	B250C125	1104	B556	2043	B774S(JAPAN)	2023
AW-01-09	562	B2A5	1104	B4E9	1104	B7C9	1114	B250C125K4	1104	B556-O	2043	B774T	2023
AW01 09	562	B2A9	1104	B4F1	1104	B7D1	1114	B250C125N2	1104	B556-R	2043	B808	2023
AW01-9	562	B2B1	1104	B4F5	1104	B7D5	1114	B250C125X4	1104	B557	2043	B808F	2023
AW01-9/CP3112030	562	B2B5	1104	B4F9	1104	B7D9	1114	B250C150	1104	B557-O	2043	B808G1	2023
AW01-9V	562	B2B9	1104	B4G1	1104	B7E1	1114	B250C150K4	1104	B557-R	2043	B856B	2027
AW-01-12	563	B2C1	1104	B4G5	1104	B7E5	1114	B274(SYLVANIA)	2030	B558	2043	B856C	2027
AW01-12	563	B2C5	1104	B4G9	1104	B7E9	1114	B285-5	1171	B558-O	2043	B1001R	081
AW-01-12C	563	B2C9	1104	B4H1	1114	B7F1	1114	B285-10	1171	B558-R	2043	B1201	1104
AW01-12C	563	B2D	1617	B4H5	1114	B7F5	1114	B285-30	1173	B587-10	1122	B1202	1102
AW01-12V	563	B2D1	1104	B4H9	1114	B7F9	1114	B285-40	1173	B59B	2023	B1202V	1102
AW01-15	564	B2D5	1104	B4K1	1114	B7G1	1114	B294	1104	B59BE	2023	B1204	1114
AW03-05	565	B2D9	1104	B4K5	1114	B7G5	1114	B376-5	1173	B598F	2023	B-133B	1617
AW08-12	563	B2D753A	561	B4K9	1114	B7G9	1114	B376-10	1173	B601-1011	1123	B-1421	1617
AW09	562	B2D757A	562	B4M1	1114	B7H1	1114	B376-20	1173	B601-1012	1104	B-1426	2023
AW0113	563	B2D759A	563	B4M5	1114	B7H5	1114	B376-30	1173	B611	2043	B-1433	1617
AX12	563	B2E	2023	B4M9	1114	B7H9	1114	B376-40	1173	B611A	2043	B-1501U	1104
AX91770	2016	B2E1	1104	B5-31S	1067	B7K1	1114	B434(2S)	2027	B640	2023	B-1599	1122
AZ4.7	565	B2E5	1104	B5A1	1104	B7K5	1114	B434-O	2027	B641	2023	B-1666	1617
AZ5.1	565	B2E9	1104	B5A5	1104	B7K9	1114	B434-ORG	2027	B641-Q(JAPAN)	2023	B-1702	1122
AZ6.2	561	B2F1	1104	B5A9	1104	B7M1	1114	B434-R(2S)	2027	B641-QR	2023	B-1823	2020
AZ9.1	562	B2F5	1104	B5B1	1104	B7M5	1114	B434-RED	2027	B641-R	2023	B-1842	1617
AZ12	563	B2F9	1104	B5B5	1104	B7M9	1114	B434-Y(2S)	2027	B641P	2023	B-1872	1617
AZ15	564	B2G	2023	B5B9	1104	B8A5	1114	B434-YEL	2027	B641Q	2023	B-1881U	1104
AZ759	563	B2G1	1104	B5C1	1104	B9TUI	2035	B434G-O	2027	B641R	2023	B-1882U	1104
AZ759A	563	B2G5	1104	B5C5	1104	B12(DIO)	1102	B434G-R	2027	B641S	2023	B-1910	2016
AZ963	563	B2G9	1104	B5C9	1104	B12(RECT)	1102	B434G-Y	2027	B642	2023	B2090	562
AZ963A	563	B2H1	1114	B5D1	1104	B12(RECT),,	1114	B434R	2027	B642-O	2023	B2404C	1104
AZ963B	563	B2H5	1114	B5D5	1104	B12-02	1104	B435(2S)	2027	B642-Q	2023	B2404D	1104
AZ965	564	B2H9	1114	B5D9	1104	B12-02R	1102	B435-O(2S)	2027	B642-Q(JAPAN)	2023	B2406C	1104
AZ965A	564	B2K	2017	B5E	2020	B12-02RK	1102	B435-O	2027	B642-R	2023	B2406D	1104
AZ965B	564	B2K1	1114	B5E1	1104	B12-1A21	1617	B435-ORG	2027	B642-R(JAPAN)	2023	B2B04D	1104
AZG	2016	B2K5	1114	B5E5	1104	B24-06B	1114	B435-R(2S)	2027	B642P	2023	B3045	2020
AZY	2016	B2K9	1114	B5E9	1104	B24-06D	1114	B435-RED	2027	B642Q	2023	B3046	2020
B004B	1171	B2M1	1114	B5F1	1104	B-2B	1123	B435-Y(2S)	2027	B642R	2023	B3466	2020
B004E	1173	B2M5	1114	B5F5	1104	B-30	1123	B435-YEL	2027	B642S	2023	B3531	2017
B01-02	1104	B2M9	1114	B5F9	1104	B30	1123	B435G-O	2027	B643	2023	B3533	2017
B01-2	1122	B2Z	2016	B5G1	1104	B30B250KP	1173	B435G-R	2027	B643-O	2023	B3537	2017
B090	562	B3	2016	B5G5	1104	B30C250	1104	B435G-Y	2027	B643-Q	2023	B3538	2017
B0102	1102	B3A1	1104	B5G9	1104	B30C250-1	1104	B435O	2027	B643-Q(JAPAN)	2023	B3539	2020
B0102V	1102	B3A5	1104	B5H1	1114	B30C350-1	1104	B435R	2027	B643-R	2023	B3540	2017
B0319200	705	B3A9	1104	B5H5	1114	B30C500	1104	B435RY	2027	B643-R(JAPAN)	2023	B3541	2017
B0350500	038	B3B1	1104	B5H9	1114	B30C600	1104	B435Y	2027	B643P	2023	B3542	2017
B0350402	038	B3B5	1104	B5K1	1114	B30C600CB	1104	B442-5	1171	B643Q	2023	B3543	2020
B0470130	2413	B3B9	1104	B5K5	1114	B30C1000	1171	B442-10	1171	B643QRS	2023	B3544	2020
B1A1	1104	B3C1	1104	B5K9	1114	B-30P	1123	B442-30	1173	B643R	2023	B3547	2020

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B3548	2020	B170001-Y	2041	BA132TA	1114	BAW76	1104	BC110	1617	BC154	2023	BC182P	2009
B3550	2020	B170001BLK	2041	BA132VA	1114	BAW99	1122	BC111	2016	BC155	2016	BC183	2009
B3551	2020	B170001BRN	2041	BA133F	1114	BAX12	1104	BC112	2016	BC155A	2016	BC183A	2009
B3570	2017	B170002	2041	BA136	1122	BAX-13	1122	BC113	1617	BC155B	2009	BC183AP	2009
B3576	2017	B170002-BLK	2041	BA136A	1141	BAX13	1122	BC114	1617	BC155C	2016	BC183B	2009
B3577	2020	B170002-BRN	2041	BA-142-01	1104	BAX-16	1122	BC114TR	1617	BC156	2016	BC183BP	2009
B3578	2020	B170002-O	2041	BA142-01	1104	BAX16	1122	BC115	1617	BC156A	2016	BC183K	2016
B3580	2020	B170002-ORG	2041	BA147	1122	BAX18	1104	BC116	2023	BC156B	2009	BC183KA	2016
B3584	2020	B170002-R	2041	BA153	1104	BAX18A	1104	BC116A	2023	BC156C	2016	BC183KB	1617
B3585	2020	B170002-RED	2041	BA154	1122	BAX28	1122	BC117	2030	BC157	2023	BC183KC	1617
B3586	2020	B170002-Y	2041	BA164	1101	BAX30	1122	BC118	1617	BC157A	2023	BC183L	2016
B3588	2020	B170003	2041	BA166	1122	BAX74	1122	BC-119	2030	BC157B	2023	BC183LA	2009
B3589	2020	B170003-B	2055	BA167	1122	BAX87	1122	BC119	2030	BC158	2023	BC183LB	2009
B3606	2017	B170003-O	2041	BA168	1122	BAX88TF11	1122	BC120	2030	BC158-1	2023	BC183P	2009
B3607	2017	B170003-R	2041	BA170	1122	BAX89A	1122	BC121	2016	BC158A	2023	BC184	2009
B3608	2017	B170003-Y	2041	BA172	1101	BAX91C/TF102	1122	BC122	2016	BC158A-1	2023	BC184B	2009
B3609	2017	B170004	2041	BA174	1122	BAX95TF600	1122	BC123	2016	BC158B	2023	BC184BP	2009
B3610	2017	B170004-B	2041	BA177	1122	BAY15	1114	BC125	1617	BC158C	2023	BC184C	2009
B3611	2017	B170004-R	2041	BA178	1141	BAY16	1114	BC125A	1617	BC159	2023	BC184CP	2009
B3612	2017	B170004-Y	2041	BA180	1101	BAY17	1122	BC125B	1617	BC159A	2023	BC184K	1617
B3613	2017	B170005	2041	BA181	1122	BAY18	1122	BC126	2023	BC159B	2023	BC184KB	1617
B3614	2017	B170005-B	2041	BA187	1122	BAY19	1122	BC127	2016	BC159C	2023	BC184KC	1617
B3746	2030	B170005-O	2041	BA200	1122	BAY20	1122	BC128	2016	BC167	2009	BC184L	2016
B3747	2017	B170005-R	2041	BA201	1122	BAY21	1103	BC129	1617	BC-167-B	2009	BC184P	2009
B3748	2017	B170005-Y	2041	BA202	1122	BAY23	1114	BC129A	2009	BC167A	2009	BC185	1617
B3750	2017	B170006	2041	BA203	1122	BAY31	1122	BC129B	2009	BC167B	2009	BC186	2023
B4302	1104	B170006-B	2055	BA208	2055	BAY36	1122	BC130	1617	BC168	2009	BC187	2023
B4304	1104	B170007	2041	BA216	1122	BAY41	1122	BC130A	2009	BC168A	2009	BC188	2016
B4304V	1104	B170009	2041	BA217	1101	BAY44	1101	BC130B	2009	BC168B	2009	BC189	2016
B4402	1104	B170010	2041	BA218	1101	BAY45	1102	BC131	1617	BC168C	2009	BC190	2009
B4404	1104	B170011	2041	BA219	1122	BAY46	1103	BC131B	2009	BC169	2009	BC190B	1617
B4406	1104	B170012	2041	BA243A	1122	BAY52	1122	BC132	1617	BC-169-C	2009	BC192	2023
B5000	2020	B170013	2041	BA243S	1122	BAY64	1104	BC132A	2009	BC169A	2009	BC194	2016
B5000-GRN	2020	B170014	2041	BA283	1122	BAY67	1122	BC134	1617	BC-169B	2009	BC194B	2016
B5000-RED	2020	B170015	2041	BA316	1122	BAY68	1122	BC135	1617	BC169B	2009	BC195	2016
B5000-YEL	2020	B170016	2041	BA317	1122	BAY72	1122	BC135A	2016	BC-169C	2009	BC195CD	2016
B5001	2017	B170018	2041	BA517	1122	BAY73	1122	BC136	1617	BC169C	2009	BC196	2023
B5001-GRN	2020	B170019	2041	BA751AA	1104	BAY86	1104	BC137	2023	BC170	2016	BC196A	2023
B5001-ORG	2020	B170020	2041	BA751BA	1104	BAY87	1104	BC-138	2030	BC170A	2016	BC196B	2023
B5001-RED	2020	B170021	2041	BA751CA	1104	BAY90	1114	BC138	2030	BC170B	2016	BC196V1	2023
B5001-YEL	2020	B170022	2041	BA751DA	1104	BB1A	1104	BC-140	2030	BC170C	2016	BC197	1617
B5002	2020	B170024	2041	BA751EA	1104	BB-2	1104	BC140	2030	BC171	2009	BC197A	1617
B5020	2041	B170025	2041	BA751FA	1104	BB2A184	1104	BC140-6	2030	BC171A	2009	BC197B	1617
B5021	2020	B1045494P1	1101	BA751GA	1104	BB3I	1104	BC140-10	2030	BC171B	2009	BC198	1617
B5022	2020	B797[illegible]850	1104	BA751HA	1104	BB3K	1104	BC140-16	2030	BC172	2009	BC198A	2009
B5031	2020	BA-07001	1123	BA751KA	1104	BB-4	1104	BC140-25	2030	BC172A	2009	BC198B	2016
B5032	2020	BA-07007	1104	BA751MA	1104	BB4	1104	BC-140A	2030	BC172B	2009	BC198C	2009
B-6001	2035	BA5A5	1101	BA751PA	1114	BB4-FC	1104	BC-140B	2030	BC172C	2009	BC199	1617
B-6002	564	BA67	1617	BA751RA	1114	BB4T	1104	BC-140C	2030	BC173	2016	BC199B	2016
B9426	2016	BA71	1617	BA751TA	1114	BB-6	1104	BC140C	2030	BC173,B	2030	BC199C	2009
B17307	2041	BA100	1104	BA751VA	1114	BB6	1104	BC-140D	2030	BC173A	2016	BC200	2023
B365[illegible]4	1104	BA102AA	1104	BA4558	038	BB-8	1104	BC140D	2030	BC173B	2016	BC200G	2023
B-75583-[illegible]02	1617	BA102BA	1104	BA4558DX	038	BB10	1104	BC-141	2030	BC173C	2016	BC200R	2023
B81004	1141	BA102CA	1104	BAC-5HIMI	1122	BB71	1617	BC141	2030	BC174	2030	BC200Y	2023
B143000	2017	BA102DA	1104	BACSHIMI	1122	BB100	1101	BC141-06	2030	BC174A	2030	BC201	2023
B143001	2017	BA102EA	1104	BACSIM1	1122	BB107	1104	BC141-6	2030	BC174B	2030	BC202	2023
B143003	2017	BA102FA	1104	BAN62	1122	BB-109	1104	BC141-10	2030	BC175	2009	BC203	2023
B143004	2020	BA102GA	1104	BAS11	1104	BB117	1104	BC141-16	2030	BC177	2023	BC204	2023
B143009	2017	BA102HA	1104	BAV17	1122	BB127	1104	BC141-25	2030	BC177A	2023	BC204-6	2023
B143010	2017	BA102KA	1104	BAV18	1122	BBIA	1104	BC-142	2030	BC177B	2023	BC204A	2023
B143011	2020	BA102MA	1104	BAV19	1122	BBY31	1122	BC142	2030	BC177V	2023	BC204B	2023
B143012	2020	BA102PA	1114	BAV20	1122	BBY40	1122	BC142-10	2030	BC177V1	2023	BC204V	2023
B143015	2017	BA102RA	1114	BAV21	1122	BC17LB-1	2023	BC142-16	2030	BC178	2023	BC204V1	2023
B143016	2017	BA102TA	1114	BAV70	1104	BC45B	2009	BC144	2030	BC178A	2023	BC205	2023
B143018	2020	BA102VA	1114	BAV74	1101	BC-71	1617	BC146	2016	BC178B	2023	BC205A	2023
B143019	2020	BA104	1104	BAW10TF20	1122	BC71	1617	BC146G	2009	BC178C	2023	BC205B	2023
B143024	2017	BA105	1103	BAW11TF21	1122	BC103	2030	BC146R	2009	BC178D	2023	BC205C	2023
B143025	2017	BA108	1101	BAW12TF22	1122	BC103C	2030	BC146Y	2009	BC178V	2023	BC205V	2023
B143026	2020	BA114	1122	BAW13TF23	1122	BC107	1617	BC147	1617	BC178V-1	2023	BC205V1	2023
B143027	2020	BA119	1104	BAW16	1122	BC107A	1617	BC147A	1617	BC178V1	2023	BC205VI	2023
B170000	2041	BA122	1122	BAW17	1122	BC107AP	2009	BC147B	1617	BC179	2023	BC206	2023
B170000-B	2055	BA127	1104	BAW18	1122	BC107B	1617	BC148	1617	BC179A	2023	BC206A	2023
B170000-ORG	2041	BA128	1104	BAW24	1122	BC107BP	2009	BC-148A	1617	BC179B	2023	BC206B	2023
B170000-ORN	2041	BA129	1102	BAW25	1122	BC108	1617	BC148A	1617	BC179C	2023	BC206C	2023
B170000-R	2041	BA130	1101	BAW28	1104	BC108A	1617	BC-148B	1617	BC180	1617	BC-207	1104
B170000-RED	2041	BA132AA	1114	BAW32A	1122	BC108AP	2009	BC148B	1617	BC180B	1617	BC207	2009
B170000-Y	2041	BA132BA	1114	BAW32B	1122	BC-108B	1617	BC-148C	1617	BC181	2023	BC207A	2009
B170000BLK	2041	BA132CA	1114	BAW32C	1104	BC108B	1617	BC148C	1617	BC181A	2023	BC207B	2009
B170000BRN	2041	BA132DA	1114	BAW32D	1101	BC108BP	2009	BC149	1617	BC182	2009	BC208	2009
B170001	2041	BA132EA	1114	BAW32E	1101	BC108C	1617	BC149A	1617	BC182A	2009	BC208A	2009
B170001-B	2041	BA132FA	1114	BAW45	1122	BC108CP	2009	BC149B	1617	BC182AP	2009	BC208B	2009
B170001-BLK	2041	BA132GA	1114	BAW53	1122	BC109	1617	BC149C	1617	BC182BP	2009	BC208C	2009
B170001-BRN	2041	BA132HA	1114	BAW59	1122	BC-109B	1617	BC149G	1617	BC182K	2016	BC209	2009
B170001-O	2041	BA132KA	1114	BAW62	1122	BC109B	1617	BC150	2009	BC182KA	1617	BC209B	2009
B170001-ORG	2041	BA132MA	1114	BAW63A	1122	BC109BP	2009	BC151	2009	BC182KB	1617	BC209C	2009
B170001-R	2041	BA132PA	1114	BAW63B	1122	BC109C	1617	BC152	2009	BC182L	2009	BC210	2009
B170001-RED	2041	BA132RA	1114	BAW75	1122	BC109CP	2009	BC153	2023	BC182LA	2009	BC211	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BC211A	2030	BC239A	2016	BC295	2016	BC337BP	2009	BC432	2023	BC490B18	2023	BC583	2009
BC212	2023	BC239B	2016	BC297	2023	BC337CP	2009	BC442	2016	BC490L	2023	BC583A	2009
BC212A	2023	BC239B5	2009	BC297-7	2023	BC338	2009	BC445	2023	BC490L5	2023	BC583B	2009
BC212AP	2023	BC239B18	2009	BC298	2023	BC338-5	2009	BC445-5	2023	BC490L18	2023	BC639	2030
BC212B	2023	BC239C	2009	BC301	2030	BC338-16	2009	BC445-18	2023	BC507A	1617	BC682	2030
BC212BP	2023	BC250	2023	BC301-4	2030	BC338-25	2009	BC446	2023	BC507B	1617	BC737	2016
BC212K	2023	BC250A	2023	BC301-5	2030	BC338-40	2009	BC446-5	2023	BC508A	1617	BC738	2016
BC212KA	2023	BC250B	2023	BC301-6	2030	BC340-6	2030	BC446-18	2023	BC508B	1617	BC-1072	1617
BC212KB	2023	BC250C	2023	BC302-4	2030	BC340-10	2030	BC447	2023	BC508C	1617	BC-1082	1617
BC212L	2023	BC251	2023	BC302-5	2030	BC340-16	2030	BC447-5	2023	BC509B	1617	BC-1086	1617
BC212LA	2023	BC251A	2023	BC302-6	2030	BC341-06	2030	BC447-18	2023	BC509C	1617	BC-1096	1617
BC212LB	2023	BC251B	2023	BC-307	1104	BC341-6	2030	BC448-5	2023	BC510B	1617	BC1096	1617
BC212P	2023	BC251C	2023	BC307	2023	BC341-10	2030	BC449-5	2023	BC510C	2016	BC1478	1617
BC212V1	2023	BC252	2023	BC307(ALGG)	2023	BC350	2023	BC450-18	2023	BC512	2023	BC-1690	1617
BC212VI	2023	BC252A	2023	BC307(PHIN)	2023	BC350A	2023	BC452	2009	BC512A	2023	BC6500	2016
BC213	2023	BC252B	2023	BC307-5	2023	BC350B	2023	BC455	2009	BC513	2023	BCM1002-2	2016
BC213A	2023	BC252C	2023	BC307-18	2023	BC350L	2023	BC456	2058	BC513A	2023	BCW31	2016
BC213AP	2023	BC253	2023	BC307A	2023	BC351	2023	BC478	2023	BC514A	2023	BCW31R	2016
BC213B	2023	BC253A	2023	BC307B	2023	BC351A	2023	BC478A	2023	BC535	2030	BCW32	2016
BC213BP	2023	BC253B	2023	BC307C	2023	BC351B	2023	BC478B	2023	BC537	2030	BCW32R	2016
BC213K	2023	BC253C	2023	BC307V1	2023	BC351L	2023	BC479	2023	BC538	2030	BCW34	1617
BC213KA	2023	BC254	2030	BC307VI	2023	BC352	2023	BC479B	2023	BC546	2016	BCW35	2023
BC213KB	2023	BC255	2030	BC307VI5	2023	BC352A	2023	BC485	2023	BC546A	2016	BCW36	1617
BC213KC	2023	BC256	2023	BC307VII8	2023	BC352B	2023	BC485-5	2023	BC546AP	2009	BCW37	2023
BC213L	2023	BC256A	2023	BC308	2023	BC352L	2023	BC485-18	2023	BC546B	2016	BCW44	2030
BC213LA	2023	BC256B	2023	BC308(ALGG)	2023	BC377	1617	BC485A	2023	BC546BP	2009	BCW45	2023
BC213LB	2023	BC257	2023	BC308-5	2023	BC378	1617	BC485A5	2023	BC546VIP	2009	BCW46	2030
BC213LC	2023	BC257VI	2023	BC308-18	2023	BC381	2023	BC485A18	2023	BC547	2009	BCW46A	2009
BC213P	2023	BC258	2023	BC308A	2023	BC382	1617	BC485B	2023	BC547A	2009	BCW46B	2009
BC214	2023	BC258C	2023	BC308B	2023	BC382B	2009	BC485B5	2023	BC547AP	2009	BCW47	2030
BC214A	2023	BC258VI	2023	BC308C	2023	BC382C	2009	BC485B18	2023	BC547B	2009	BCW47A	2009
BC214B	2023	BC259	2023	BC308V1	2023	BC383	1617	BC485L	2023	BC547BP	2009	BCW47B	2009
BC214BP	2023	BC260	2023	BC308VI5	2023	BC383B	2009	BC485L5	2023	BC547C	2009	BCW48	2030
BC214CP	2023	BC260A	2023	BC308VII8	2023	BC383C	1617	BC485L18	2023	BC547VI	2009	BCW48A	2009
BC214K	2023	BC260B	2023	BC309	2023	BC384	1617	BC486	2023	BC547VIP	2009	BCW48B	2009
BC214KA	2023	BC260C	2023	BC309(ALGG)	2023	BC384B	2009	BC486-5	2023	BC548	2009	BCW48C	2009
BC214KB	2023	BC-261	2023	BC309(SIEG)	2023	BC384C	2016	BC486-18	2023	BC548A	2016	BCW49	2030
BC214KC	2023	BC261	2023	BC309-5	2023	BC385A	2016	BC486A	2023	BC548AP	2009	BCW49B	2009
BC214L	2023	BC261A	2023	BC309-18	2023	BC385B	2016	BC486A5	2023	BC548B	2009	BCW49C	2009
BC214LA	2023	BC261B	2023	BC309A	2023	BC386A	2016	BC486A18	2023	BC548BC	2009	BCW56	2023
BC214LB	2023	BC261C	2023	BC309B	2023	BC386B	2016	BC486B	2023	BC548BP	2009	BCW56A	2023
BC214LC	2023	BC262	2023	BC309C	2023	BC400	2023	BC486B5	2023	BC548C	2009	BCW57	2023
BC214P	2023	BC262A	2023	BC310	2030	BC404	2023	BC486L	2023	BC548CP	2016	BCW57A	2023
BC216	2030	BC262B	2023	BC312	2030	BC404VI	2023	BC486L5	2023	BC548VI	2009	BCW58	2023
BC216A	2030	BC262C	2023	BC315	2023	BC405	2023	BC487	2023	BC548VIP	2009	BCW58A	2023
BC216B	2030	BC263	2023	BC317	2009	BC405A	2023	BC487-5	2023	BC549	2009	BCW58B	2023
BC220	1617	BC263A	2023	BC317A	2009	BC405B	2023	BC487-18	2023	BC549B	2009	BCW59	2023
BC221	2023	BC263B	2023	BC317B	2009	BC406B	2023	BC487A	2023	BC549BP	2009	BCW59A	2023
BC222	1617	BC263C	2023	BC318	2009	BC407	1617	BC487A5	2023	BC549C	2016	BCW59B	2023
BC223	2009	BC264A	2023	BC318A	2009	BC407A	1617	BC487A18	2023	BC549CP	2016	BCW60A	1617
BC223A	2009	BC264C	2035	BC318B	2009	BC407B	1617	BC487B	2023	BC550	2009	BCW60AA	1617
BC223B	2009	BC266	2023	BC318C	2009	BC408	1617	BC487B5	2023	BC550B	2009	BCW60AB	2009
BC224	2023	BC266A	2023	BC319	2009	BC408A	2016	BC487B18	2023	BC550BP	2009	BCW60AC	2009
BC225	2023	BC266B	2023	BC319B	2009	BC408B	2016	BC487L	2023	BC550C	2016	BCW60B	2009
BC231A	2023	BC267	1617	BC319C	2009	BC408C	2016	BC487L5	2023	BC550CP	2016	BCW60C	2009
BC231B	2023	BC268	1617	BC320	2023	BC409	1617	BC487L18	2023	BC556	2023	BCW61	2023
BC232A	2009	BC269	1617	BC320A	2023	BC409B	2009	BC488	2023	BC556A	2023	BCW61BC	2023
BC232B	2009	BC270	1617	BC321	2023	BC409C	2009	BC488-5	2023	BC556B	2023	BCW61BD	2023
BC232M	2030	BC271	2016	BC321A	2023	BC413	2009	BC488-18	2023	BC556VI	2023	BCW61C	2023
BC233A	1617	BC280	1617	BC321B	2023	BC413B	2009	BC488A	2023	BC557	2023	BCW61D	2023
BC237	2009	BC280A	1617	BC322	2023	BC413BP	2009	BC488A5	2023	BC557A	2023	BCW62	2023
BC237(PHIN)	2016	BC280B	1617	BC322B	2023	BC413C	2009	BC488A18	2023	BC557B	2023	BCW62A	2023
BC237-18	2009	BC280C	1617	BC322C	2023	BC414	1617	BC488B	2023	BC557VI	2023	BCW63	2023
BC237A	2009	BC281	2023	BC324	2030	BC414B	2009	BC488B5	2023	BC558	2023	BCW63A	2023
BC237A5	2009	BC281A	2023	BC325	2023	BC414BP	2009	BC488B18	2023	BC558A	2023	BCW64A	2023
BC237A18	2009	BC281B	2023	BC325A	2023	BC414C	2009	BC488L	2023	BC558B	2023	BCW65EA	2009
BC237B	2009	BC281C	2023	BC326	2023	BC415-6	2023	BC488L5	2023	BC558VI	2023	BCW65EB	2009
BC237B5	2009	BC282	2009	BC326A	2023	BC415A	2023	BC488L18	2023	BC559	2023	BCW69	2023
BC237B18	2009	BC283	2023	BC327	2023	BC415AP	2023	BC489	2023	BC559A	2023	BCW71	2016
BC238	2009	BC284	2009	BC327(25)	2023	BC415B	2023	BC489-5	2023	BC559B	2023	BCW71R	2016
BC238(PHIN)	2016	BC284A	2009	BC327-5	2023	BC415BP	2023	BC489-18	2023	BC560	2023	BCW72	2016
BC238-5	2009	BC284B	2009	BC327-18	2023	BC415C	2023	BC489A	2023	BC560A	2023	BCW72R	2016
BC238-16	2023	BC285	1617	BC327AP	2023	BC416-6	2023	BC489A5	2023	BC560C	2023	BCW73	1617
BC238-18	2009	BC286	2030	BC327CP	2023	BC416A	2023	BC489A18	2023	BC560PA	2023	BCW73-25	1617
BC238A	2009	BC288	2030	BC328	2023	BC416AP	2023	BC489B	2023	BC560PAK	2023	BCW74	1617
BC238A5	2009	BC289	1617	BC328-5	2023	BC416B	2023	BC489B5	2023	BC560PAL	2023	BCW74-25	1617
BC238A18	2009	BC289A	1617	BC328-18	2023	BC416BP	2023	BC489B18	2023	BC560PAM	2023	BCW75-25	2023
BC238B	2009	BC289B	1617	BC328AP	2023	BC416C	2023	BC489L	2023	BC560PB	2023	BCW77-25	2030
BC238B5	2009	BC290	1617	BC328BP	2023	BC416CP	2023	BC489L5	2023	BC560PBK	2023	BCW78	2030
BC238B18	2009	BC290B	1617	BC328C	2023	BC417	2023	BC489L18	2023	BC560PBL	2023	BCW78-25	2030
BC238C	2016	BC290C	1617	BC328CP	2023	BC418	2023	BC490	2023	BC560PBM	2023	BCW79-10	2023
BC238C5	2009	BC291	2023	BC337-5	2009	BC418A	2023	BC490-5	2023	BC560PC	2023	BCW79-16	2023
BC238C18	2009	BC291A	2023	BC337-16	2009	BC419	2023	BC490-18	2023	BC560PCK	2023	BCW80-10	2023
BC239	2009	BC291D	2023	BC337-18	2009	BC419A	2023	BC490A	2023	BC560PCM	2023	BCW80-16	2023
BC239(PHIN)	2016	BC292	2023	BC337-25	2009	BC429	2030	BC490A5	2023	BC582	2009	BCW83	1617
BC239-5	2009	BC292A	2023	BC337-40	2016	BC431	2030	BC490A18	2023	BC582A	2009	BCW84B	2009
BC239-18	2009	BC292D	2023	BC337AP	2009	BC431B	2009	BC490B5	2023	BC582B	2009	BCW86	2023

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BCW87	2016	BCY58VII	1617	BD130	2041	BD585	2020	BDY82	2027	BF233-4	2016	BF333C	2016
BCW88	2023	BCY58VIII	1617	BD-131	2020	BD587	2020	BDY83	2027	BF233-5	2016	BF333D	2016
BCW92KA	2023	BCY59	1617	BD135G	2017	BD589	2020	BDY93	2055	BF233-6	2058	BF334	2016
BCW92KB	2023	BCY59-7	1617	BD137G	2017	BD591	2020	BDY93/01	2055	BF234	2058	BF335	2016
BCW93A	2023	BCY59-8	1617	BD139G	2017	BD596	2027	BE-66	1617	BF235	2016	BF340	2023
BCW93B	2023	BCY59-9	1617	BD141	2041	BD633	2020	BE71	2030	BF236	2016	BF342	2023
BCW93KA	2023	BCY59A	1617	BD142	2041	BD635	2020	BE107	1104	BF237	2009	BF343	2023
BCW93KB	2023	BCY59B	1617	BD162	2020	BD643	2068	BE117	1104	BF238	2009	BF344	2016
BCW94	2009	BCY59C	1617	BD163	2020	BD645	2068	BE127	1104	BF240	2058	BF345	2016
BCW94A	2009	BCY59D	1617	BD181	2041	BD705	2020	BE173	2016	BF240B	2058	BF348	2035
BCW94B	2009	BCY59IX	1617	BD182	2041	BD707	2020	BF71	1617	BF241	2058	BF357	2016
BCW94C	2009	BCY59VII	1617	BD201	2020	BD709	2020	BF115	2009	BF241C	2058	BF362	2016
BCW94KA	2009	BCY59VIII	1617	BD203	2020	BD711	2020	BF121	2016	BF241D	2058	BF363	2016
BCW94KB	2009	BCY65	2030	BD220	2020	BD733	2020	BF123	2016	BF243	2023	BF364	2058
BCW94KC	2009	BCY65IX	1617	BD221	2020	BD735	2020	BF125	2016	BF244	2035	BF365	2058
BCW95	2030	BCY65VII	1617	BD222	2020	BD737	2020	BF127	2016	BF244A	2035	BF366	2030
BCW95A	2009	BCY65VIII	1617	BD223	2027	BD801	2020	BF155	2016	BF244B	2035	BF367	2058
BCW95B	2009	BCY66	2030	BD224	2027	BD833	2017	BF161	2016	BF244C	2035	BF368	2009
BCW95KA	2009	BCY69	1617	BD225	2027	BD835	2017	BF162	2016	BF245	2035	BF369	2009
BCW95KB	2009	BCY70	2023	BD233G	2020	BD837	2017	BF163	2016	BF245A	2035	BF379	2023
BCW96	2023	BCY71	2023	BD235G	2020	BD905	2020	BF164	2016	BF245B	2035	BF384	2016
BCW96A	2023	BCY71A	2023	BD237G	2020	BD907	2020	BF165	2016	BF245C	2035	BF385	2016
BCW96B	2023	BCY72	2023	BD238	2055	BD909	2020	BF166	2016	BF246	2035	BF387	2030
BCW96KA	2023	BCY72A	2023	BD239	2020	BD911	2020	BF167	2016	BF247	2035	BF414	2023
BCW96KB	2023	BCY76	1617	BD239A	2020	BD3595F	1102	BF168	2016	BF248	1617	BF440	2023
BCW97	2023	BCY77A	2023	BD240	2027	BD3595T	1102	BF169	2016	BF249	2023	BF441	2023
BCW97A	2023	BCY77B	2023	BD240A	2027	BDOA	1171	BF173	2016	BF250	1617	BF450	2023
BCW97B	2023	BCY77C	2023	BD241	2020	BDT61	2068	BF173A	2016	BF251	2016	BF451	2023
BCW97KA	2023	BCY77VII	2023	BD241A	2020	BDT61A	2068	BF175	2016	BF252	2016	BF494	2058
BCW97KB	2023	BCY77VIII	2023	BD241B	2020	BDT61B	2068	BF176	2016	BF253	2016	BF495	2058
BCW98A	2016	BCY78	2023	BD241C	2020	BDT91	2020	BF177	2030	BF254	2058	BF497	2016
BCW98B	2016	BCY79	2023	BD242	2027	BDT93	2020	BF-180	2009	BF254(ALGG)	2009	BF505	2058
BCW98C	2016	BCY79VII	2023	BD242A	2027	BDT95	2020	BF180	2016	BF254(PHIN)	2009	BF506	2023
BCW98D	2016	BCY84A	1617	BD242B	2027	BDW23	2068	BF181	2016	BF254(SIEG)	2058	BF507	2058
BCX17	2023	BCY85	2030	BD243	2020	BDW23A	2068	BF182	2016	BF254B	2016	BF516	2016
BCX17R	2023	BCY86	2030	BD243B	2020	BDW23B	2068	BF183	2016	BF-255	2009	BF540	2023
BCX19	2009	BCY87	2016	BD244	2027	BDX10	2041	BF183A	1617	BF255	2058	BF541	2023
BCX19R	2009	BCY88	2016	BD244A	2027	BDX11	2041	BF184	2016	BF255(ALGG)	2009	BF542	2023
BCX20	2009	BCY89	2016	BD244B	2027	BDX18	2043	BF185	2016	BF255(PHIN)	2009	BF594	2058
BCX20R	2009	BCY90	2023	BD271	2020	BDX18N	2043	BF187	2016	BF255(SIEG)	2058	BF595	2058
BCX26	2023	BCY90B	2023	BD272	2027	BDX24	2041	BF188	2016	BF255C	2016	BF596	2009
BCX31	2030	BCY91	2023	BD273	2020	BDX25	2020	BF189	1617	BF255D	2016	BF597	2016
BCX35	2023	BCY91B	2023	BD275	2020	BDX27	2027	BF194	2058	BF256	2035	BF689	2016
BCX36	2023	BCY92	2023	BD278	2020	BDX27-6	2027	BF194A	2016	BF256A	2035	BF704	2023
BCX45	2023	BCY92B	2023	BD278A	2020	BDX27-10	2027	BF194B	2016	BF256B	2035	BF-832	2023
BCX46	2023	BCY93	2023	BD278AE	2020	BDX28	2027	BF195	2058	BF256C	2035	BFR10	2016
BCX50	2023	BCY93B	2023	BD278E	2020	BDX28-6	2027	BF195C	2016	BF260	2016	BFR11	1617
BCX58	2009	BCY94	2023	BD291	2020	BDX28-10	2027	BF195D	2016	BF261	2016	BFR16	1617
BCX58VII	2009	BCY94B	2023	BD293	2020	BDX29	2020	BF196	2058	BF262	2016	BFR17	2016
BCX58VIII	2009	BCY95	2023	BD311	2041	BDX29-6	2020	BF197	2016	BF263	2016	BFR18	2030
BCX59	2009	BCY95B	2023	BD312	2043	BDX29-10	2020	BF-198	2058	BF264	2016	BFR19	2030
BCX70AG	2009	BCY98	2023	BD313	2041	BDX30	2020	BF198	2058	BF270	2016	BFR20	2030
BCX70AH	2009	BCY98B	2023	BD-433	2020	BDX30-6	2020	BF199	2058	BF271	2016	BFR22	2030
BCX70AJ	2009	BCY443	2030	BD433	2020	BDX30-10	2020	BF200	2016	BF272	2023	BFR25	2016
BCX71BJ	2023	BCY501	1617	BD433A	2020	BDX70	2020	BF-200(PENNCREST)		BF273	2016	BFR26	1617
BCX71BK	2023	BCY511	1617	BD434	2027	BDX71	2020		2016	BF273C	2016	BFR28	2016
BCY10	2023	BCY771X	2023	BD434A	2027	BDX72	2020	BF200(ZENITH)	2016	BF273D	2016	BFR35A	1617
BCY11	2023	BCZ10	2023	BD435	2020	BDX73	2020	BF206	2016	BF274	2016	BFR36	2030
BCY12	2023	BCZ11	2023	BD435A	2020	BDX74	2020	BF207	2016	BF274B	2016	BFR40T05	2030
BCY13	1617	BCZ12	2023	BD436	2027	BDX75	2020	BF208	2016	BF274C	2016	BFR40TO5	2030
BCY15	1617	BCZ13	2023	BD436A	2027	BDX77	2020	BF209	2016	BF279	2016	BFR41T05	2030
BCY16	1617	BCZ14	2023	BD437	2020	BDX91	2041	BF212	2016	BF287	2016	BFR41TO5	2030
BCY35	2023	BD0A	1104	BD438	2027	BDX92	2043	BF213	2016	BF288	2016	BFR51	2030
BCY36	1617	BD1	1123	BD439	2020	BDX93	2041	BF-214	1617	BF290	2016	BFR53	2030
BCY37	2023	BD-1A	1104	BD440	2027	BDX94	2043	BF214	2016	BF291	1617	BFR77	2030
BCY38	2023	BD2	1123	BD441	2020	BDX95	2041	BF-215	1617	BF291A	1617	BFR78	2030
BCY39	2023	BD3	1123	BD457	1104	BDY10	2041	BF215	2016	BF291B	1617	BFS11	2016
BCY40	2023	BD3A-1B4	1171	BD457F	1104	BDY11	2041	BF216	2016	BF293	1617	BFS13E	2016
BCY42	1617	BD-3A184	1171	BD457T	1104	BDY12	2020	BF217	2016	BF293A	1617	BFS13F	2016
BCY43	1617	BD4	1123	BD458F	1102	BDY13	2020	BF218	2016	BF293D	1617	BFS13G	2016
BCY46	2030	BD5	1123	BD458T	1102	BDY17	2041	BF219	2016	BF302	2016	BFS14E	2016
BCY47	2030	BD6	1123	BD483B	1104	BDY20	2041	BF220	2016	BF304	2016	BFS14F	2016
BCY48	2030	BD7	1123	BD483BF	1104	BDY23	2041	BF222	2016	BF306	2016	BFS14G	2016
BCY49	2030	BD71	2016	BD483BT	1104	BDY23A	2041	BF223	2016	BF308	2058	BFS15E	2016
BCY50	1617	BD106	2020	BD533	2020	BDY23B	2041	BF224	2058	BF310	2058	BFS15F	2016
BCY51	1617	BD106A	2020	BD534	2027	BDY23C	2041	BF224J	1617	BF311	2058	BFS15G	2016
BCY51I	1617	BD106B	2020	BD534L	2027	BDY34	2020	BF225	2058	BF314	2058	BFS16E	2016
BCY54	2023	BD-107	1104	BD535	2020	BDY38	2041	BF225J	1617	BF321A	1617	BFS16F	2016
BCY55	2016	BD107	2017	BD536	2027	BDY39	2041	BF-226	1617	BF321B	1617	BFS16G	2016
BCY56	1617	BD107A	2020	BD537	2020	BDY53	2041	BF226	2016	BF321C	1617	BFS17	2016
BCY57	1617	BD107B	2020	BD544	2020	BDY54	2041	BF227	2016	BF321D	1617	BFS17R	2016
BCY58	2023	BD109	2020	BD544A	2020	BDY56	2041	BF229	2016	BF321E	1617	BFS18	2016
BCY58A	1617	BD109-6	2020	BD544B	2020	BDY63	2041	BF230	2016	BF321F	1617	BFS18CA	2016
BCY58B	1617	BD111	2041	BD544C	2020	BDY69	2043	BF232	2016	BF322	2030	BFS18R	2016
BCY58C	1617	BD113	2058	BD575	2020	BDY73	2041	BF233	2058	BF329	2016	BFS19	2016
BCY58D	1617	BD124	2020	BD577	2020	BDY80	2020	BF233-2	2058	BF332	2016	BFS19CB	2009
BCY58IX	1617	BD-127	1104	BD579	2020	BDY81	2020	BF233-3	2058	BF333	2016	BFS19R	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BFS20	2016	BFV60	2016	BFX69	2030	BFY79	2016	BRR102	1173	BSW11	1617	BSX52A	1617
BFS20R	2016	BFV61	2016	BFX69A	2030	BFY80	2030	BRR103	1173	BSW12	1617	BSX53	1617
BFS21	2035	BFV62	2016	BFX73	2016	BFY85	1617	BRR104	1173	BSW13	2016	BSX54	1617
BFS21A	2035	BFV80	2016	BFX74	2030	BFY86	1617	BRR151	1173	BSW19	1617	BSX59	2030
BFS23A	2041	BFV81	2023	BFX77	2016	BFY87	2016	BRR152	1173	BSW20	2023	BSX60	2030
BFS26E	2023	BFV81A	2023	BFX84	2030	BFY87A	2016	BRR153	1173	BSW21	2023	BSX61	2030
BFS26F	2023	BFV81B	2023	BFX85	2030	BFY88	2016	BRR154	1173	BSW21A	2023	BSX62	2030
BFS26G	2023	BFV82	2023	BFX86	2030	BFY90(SIEG)	1617	BRX44	1067	BSW22	2023	BSX62B	2030
BFS27E	2016	BFV82A	2023	BFX89	2016	BFY90B	2016	BRX45	1067	BSW22A	2023	BSX62C	2030
BFS27F	2016	BFV82B	2023	BFX92	1617	BFY94	2023	BRX46	1067	BSW24	2023	BSX62D	2030
BFS27G	2016	BFV82C	2023	BFX92A	1617	BFY99	2030	BRX47	1067	BSW26	2030	BSX63B	2030
BFS29	2030	BFV83	2016	BFX93	1617	BFY167	2016	BRX48	1020	BSW27	2030	BSX63C	2030
BFS31	2023	BFV83A	2016	BFX93A	2016	BFY371	1617	BRX49	1020	BSW28	2030	BSX66	1617
BFS31P	1617	BFV83B	1617	BFX94	1617	BFY391	1617	BRX60	1067	BSW29	2030	BSX67	1617
BFS32	2023	BFV83C	1617	BFX95	1617	BG-07077	562	BRX61	1067	BSW32	2009	BSX68	1617
BFS32P	2023	BFV85	1617	BFX95A	1617	BG-66	1617	BRX62	1067	BSW33	1617	BSX69	1617
BFS33	2023	BFV85A	1617	BFX96	1617	BG71	1617	BRX64	1020	BSW34	1617	BSX70	2030
BFS33P	2023	BFV85B	1617	BFX96A	2030	BG-94	1617	BRY54-100	1067	BSW35	2030	BSX71	2030
BFS34P	2023	BFV85C	1617	BFX97	2030	BH4R1	1104	BRY54-300	1020	BSW39	1617	BSX72	2030
BFS36	2030	BFV85D	2016	BFX97A	2030	BH4R6	1114	BRY55-30	1067	BSW39-6	2030	BSX75	1617
BFS36A	1617	BFV85E	2016	BFX99	2030	BH71	1617	BRY55-60	1067	BSW39-10	2030	BSX76	1617
BFS37	2023	BFV85F	2016	BFY10	1617	BH-DX0038CEZZ	1104	BRY55-100	1067	BSW39-16	2030	BSX77	1617
BFS37A	2023	BFV85G	2016	BFY11	1617	BI71	1617	BRY55-200	1067	BSW41	1617	BSX78	1617
BFS38	1617	BFV86	2023	BFY12	1617	BIP7201	1617	BRY55-300	1020	BSW42	1617	BSX79	1617
BFS38A	1617	BFV86A	2023	BFY13	2030	BIW	1617	BS08H	1000	BSW42A	1617	BSX79A	2009
BFS39	2009	BFV86B	2023	BFY14	2030	BLY10	2041	BS1	1104	BSW43	1617	BSX79B	2009
BFS40	2023	BFV86C	2023	BFY15	2030	BLY11	2041	BS2	1104	BSW43A	1617	BSX80	1617
BFS40A	2023	BFV87	1617	BFY17	2030	BLY20	2017	BS-66	1617	BSW44	2023	BSX81	1617
BFS41	2023	BFV88	1617	BFY18	1617	BLY21	2020	BS67	1617	BSW44A	2023	BSX81A	2009
BFS42	1617	BFV88A	1617	BFY19	1617	BLY27	2009	BS68	2023	BSW45	2023	BSX81B	2009
BFS43	1617	BFV88B	1617	BFY22	1617	BLY36	2020	BS-94	1617	BSW45A	2023	BSX87	1617
BFS51	2017	BFV88C	1617	BFY23	1617	BLY37	2017	BS475	1617	BSW49	2030	BSX88	1617
BFS55A	2016	BFV89	2016	BFY23A	1617	BLY38	2017	BS9011G	2009	BSW51	1617	BSX89	1617
BFS58	2016	BFV89A	2016	BFY24	1617	BLY47	2041	BSA01	1122	BSW52	1617	BSX90	1617
BFS62	2016	BFW10	2035	BFY25	1617	BLY48	2041	BSA02	1122	BSW53	1617	BSX91	1617
BFS68	2035	BFW11	2035	BFY26	1617	BLY53	2017	BSA11	1122	BSW58	2009	BSX92	2016
BFS68P	2035	BFW12	2035	BFY27	2030	BLY61	2030	BS-B1	1171	BSW59	2009	BSX93	2016
BFS69	2023	BFW13	2035	BFY28	1617	BLY62	2017	BS-B4	1173	BSW65	2030	BSX94A	1617
BFS96	2023	BFW20	2023	BFY29	1617	BLY63	2020	BSS10	1617	BSW66	2030	BSX95	2030
BFS97	2023	BFW21	2023	BFY30	1617	BLY68	2020	BSS21	1617	BSW72	2023	BSX96	2030
BFS98	2023	BFW22	2023	BFY33	1617	BLY78	2017	BSS22	1617	BSW73	2023	BSX97	1617
BFT20	2023	BFW23	2023	BFY34	2030	BLY79	2020	BSS26	1617	BSW74	2023	BSY10	1617
BFT21	2023	BFW29	1617	BFY37	1617	BLY88	2020	BSS28	2030	BSW75	2023	BSY11	1617
BFT22	2023	BFW31	2023	BFY37I	1617	BLY89	2020	BSS29	2030	BSW81	2023	BSY17	1617
BFT29	2030	BFW32	1617	BFY39	1617	BLY91	2017	BSS40	2030	BSW82	1617	BSY18	1617
BFT30	2030	BFW41	2016	BFY39/1	1617	BLY92	2020	BSS41	2030	BSW83	1617	BSY19	2009
BFT31	2030	BFW46	1617	BFY39/2	1617	BN-66	1617	BSV21	2023	BSW84	1617	BSY20	1617
BFT39	2030	BFW50	1171	BFY39/3	1617	BN7133	2041	BSV35	2016	BSW85	1617	BSY21	1617
BFT40	2030	BFW54	2035	BFY39/I	1617	BN7214	2041	BSV35A	1617	BSW88	1617	BSY22	2016
BFT41	2030	BFW55	2035	BFY39/II	1617	BN7517	1617	BSV40	1617	BSW88A	2009	BSY23	2016
BFT54	2030	BFW56	2035	BFY39/III	1617	BN7518	1617	BSV41	1617	BSW88B	2009	BSY24	1617
BFT55	1617	BFW59	1617	BFY39-1	2016	BN7551	563	BSV42	2023	BSW89	1617	BSY25	1617
BFT70	2023	BFW60	1617	BFY39-2	2016	BO-71	2016	BSV43A	2023	BSW89A	2009	BSY26	1114
BFT71	2023	BFW61	2035	BFY39-3	2016	BO319200	705	BSV44A	2023	BSW89B	2009	BSY27	1617
BFV10	2009	BFW63	2016	BFY39I	1617	BO470016	2401	BSV45A	2023	BSW92	1617	BSY28	1617
BFV11	2009	BFW64	2016	BFY40	2030	BO470116	2411	BSV46	2023	BSX12	2016	BSY29	1617
BFV12	2009	BFW68	1617	BFY44	2030	BP67	1617	BSV47A	2023	BSX12A	2030	BSY34	1617
BFV20	2023	BFW87	2023	BFY46	2030	BQ67	1617	BSV48A	2023	BSX19	1617	BSY38	1617
BFV21	2023	BFW89	2023	BFY47	2016	BQ-94	1617	BSV49A	2023	BSX23	2030	BSY39	1617
BFV22	2023	BFW90	2023	BFY48	2016	BR-1	1171	BSV51	2030	BSX24	1617	BSY40	2023
BFV25	2023	BFX17	2030	BFY49	2016	BR42	1104	BSV52	2016	BSX25	1617	BSY41	2023
BFV26	2023	BFX18	2016	BFY50	2030	BR44	1104	BSV52R	2016	BSX26	2016	BSY44	2030
BFV27	2016	BFX19	2016	BFY51	2030	BR46	1104	BSV53	1617	BSX27	2016	BSY45	2030
BFV28	2016	BFX20	2016	BFY51I	2030	BR47	1104	BSV53P	2016	BSX30	1617	BSY46	2030
BFV29	2023	BFX21	2016	BFY52	2030	BR48	1104	BSV54	1617	BSX33	2030	BSY48	1617
BFV30	2023	BFX29	2023	BFY53	2030	BR52	1104	BSV54P	2016	BSX35	2016	BSY49	1617
BFV31	2023	BFX30	2023	BFY55	2030	BR-66	1617	BSV55	1617	BSX36	2023	BSY51	2030
BFV32	2023	BFX31	2016	BFY56	2030	BR67	1617	BSV55A	2023	BSX38	1617	BSY52	2030
BFV33	2023	BFX32	2016	BFY56A	2030	BR81D	1171	BSV55AP	2023	BSX38A	1617	BSY53	2030
BFV34	2023	BFX35	2023	BFY56B	2030	BR-82	2023	BSV55P	2023	BSX38B	1617	BSY54	2030
BFV37	2016	BFX37	2023	BFY66	2030	BR84D	1173	BSV59	1617	BSX44	1617	BSY55	2030
BFV38	2016	BFX43	1617	BFY67	2030	BR-100B	2017	BSV65FA	2009	BSX45	2030	BSY56	2030
BFV40	2009	BFX44	1617	BFY67A	2030	BR100B	2017	BSV65FB	2009	BSX45-6	2030	BSY58	1617
BFV41	2009	BFX45	2016	BFY67C	2030	BR-101B	2020	BSV69	2030	BSX45-10	2030	BSY59	1617
BFV42	2009	BFX47	2016	BFY68	2030	BR101B	2020	BSV77	2016	BSX45-16	2030	BSY61	1617
BFV43	2009	BFX50	2030	BFY68A	2030	BR103	1067	BSV84	2030	BSX46	2030	BSY62	1617
BFV44	2009	BFX51	2030	BFY69	2016	BR805D	1171	BSV86	2009	BSX46-6	2030	BSY62A	1617
BFV45	2009	BFX52	2030	BFY69A	2016	BR-832	2023	BSV87	2009	BSX46-10	2030	BSY63	1617
BFV46	2009	BFX59	2009	BFY69B	2016	BR51400-1	1104	BSV88	1617	BSX46-16	2030	BSY70	1617
BFV47	2009	BFX59F	1617	BFY70	2030	BR51401-2	1104	BSV89	1617	BSX47	2030	BSY71	2030
BFV49	2009	BFX60	2016	BFY72	1617	BRF151	1171	BSV90	1617	BSX47-6	2030	BSY72	1617
BFV50	2009	BFX61	2030	BFY73	1617	BRF152	1171	BSV91	1617	BSX47-10	2030	BSY73	1617
BFV51	2009	BFX62	2016	BFY74	1617	BRF154	1173	BSV92	2058	BSX48	1617	BSY74	1617
BFV53	2009	BFX65	2023	BFY75	1617	BRF201	1171	BSV96	2023	BSX49	1617	BSY75	1617
BFV54	2009	BFX66	1617	BFY76	1617	BRF202	1171	BSV97	2023	BSX51	1617	BSY76	1617
BFV55	2009	BFX68	2030	BFY77	1617	BRF204	1173	BSV98	2023	BSX51A	1617	BSY77	2030
BFV59	2016	BFX68A	2030	BFY78	2016	BRR101	1173	BSW10	2030	BSX52	1617	BSY78	2030

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276	DEVICE	276	DEVICE	276-
BSY80	1617	BUY24	2020	BY1001	1114	BZ-120	563	BZX55-C4V7	565	BZX83C12	563	BZY83D12	563
BSY81	2030	BUY44	2041	BY1002	1114	BZ120	563	BZX55-C5V1	565	BZX83C12V	563	BZY83D15	564
BSY82	2030	BV25	1104	BY1101	1114	BZ-148	564	BZX55-C6V2	561	BZX83C15	564	BZY84D12	563
BSY83	2030	BV67	1617	BY1102	1114	BZ148	564	BZX55-C9V1	562	BZX83C15V	564	BZY85/C5V1	565
BSY84	2030	BV71	1617	BY1200	1114	BZ-150	564	BZX55-C12	563	BZX84C4V7	565	BZY85/C15	564
BSY85	2030	BW67	1617	BY1201	1114	BZ150	564	BZX55-C15	564	BZX84C5V1	565	BZY85/D15	564
BSY86	2030	BW71	1617	BY1202	1114	BZ821T	561	BZX55C4V7	565	BZX84C6V2	561	BZY85-C4V7	565
BSY87	2030	BX090	562	BYS21	1104	BZ821TF	561	BZX55C5V1	565	BZX84C9V1	562	BZY85-C6V1	561
BSY88	2030	BX67	1617	BYV950	1104	BZ821TT	561	BZX55C6V2	561	BZX84C12	563	BZY85-C6V2	561
BSY89	1617	BX71	1617	BYW27-50	1101	BZ963	563	BZX55C9V1	562	BZX85C4V7	565	BZY85-C9V1	562
BSY90	2030	BX909	562	BYW76	1104	BZ963F	563	BZX55C12	563	BZX85C5V1	565	BZY85-C12	563
BSY91	1617	BXY10	1114	BYX10	1114	BZ963T	563	BZX55C12V	563	BZX85C6V2	561	BZY85-C15	564
BSY92	2030	BXY63	562	BYX12/400	1114	BZ965	564	BZX55C15	564	BZX85C9V1	562	BZY85-D4V7	565
BSY93	1617	BY12/30	1114	BYX13/400	1114	BZ965F	564	BZX55C15V	564	BZX85C12	563	BZY85-D12	563
BSY95	1617	BY67	1617	BYX22/200	1104	BZ965T	564	BZX58-C9V1	562	BZX85C15	564	BZY85-D15	564
BSY95A	1617	BY71	1617	BYX22/400	1104	BZ1021V4	1122	BZX58C9V1	562	BZX88C4V7	565	BZY85B6V2	561
BSY165	1617	BY100	1114	BYX22/600	1104	BZ2090	562	BZX59-C15	564	BZX88C5V1	565	BZY85B15	564
BSY168	1617	BY100S	1114	BYX22/800	1114	BZV18C6V2	561	BZX59C12	563	BZX88C6V2	561	BZY85C4V7	565
BT67	1617	BY101	1104	BYX22-200	1104	BZV18C9V1	562	BZX59C15	564	BZX88C9V1	562	BZY85C5V1	565
BT71	1617	BY102	1104	BYX22-400	1103	BZV18C12	563	BZX63C9V1	562	BZX88C12	563	BZY85C6V2	561
BT82	2023	BY104	1114	BYX27-400	1104	BZV27	561	BZX64C12	563	BZX88C15	564	BZY85C9V1	562
BT-94	1617	BY105	1114	BYX22-800	1114	BZV27A	561	BZX64C15	564	BZX93-C6V2	561	BZY85C12	563
BT100A-300R	1020	BY106	1104	BYX26-60	1114	BZV28	561	BZX68-C9V2	562	BZX93-C9V1	562	BZY85C15	564
BT106A	1067	BY107	1104	BYX30/150	1143	BZV28A	561	BZX69-C12	563	BZX93-C12	563	BZY85D4V7	565
BT106B	1067	BY108	1114	BYX36-150	1114	BZV29	561	BZX69C12	563	BZX96-C4V7	565	BZY85D12	563
BT106C	1020	BY109	1114	BYX36-300	1104	BZV29A	561	BZX71-B5V1	565	BZX96-C5V1	565	BZY85D15	564
BT106D	1020	BY111	1104	BYX36-600	1104	BZV30	561	BZX71-B6V2	561	BZX96-C6V2	561	BZY88/C5V1	565
BT929	2016	BY112	1104	BYX38	1114	BZV30A	561	BZX71-B9V1	562	BZX96-C9V1	562	BZY88/C6V2	561
B-T-1000-139	2016	BY113	1104	BYX45-600R	1114	BZV31	561	BZX71-B12	563	BZX96-C12	563	BZY88/C9V1	562
BT8667	2035	BY114	1104	BYX45-800R	1114	BZV31A	561	BZX71-B15	564	BZX96-C15	564	BZY88/C9V5	562
BT151500R	1020	BY115	1104	BYX45-1000R	1114	BZV32	562	BZX71-C5V1	565	BZX96C4V7	565	BZY88/C9V7	565
BTB1080	1114	BY116	1104	BYX55-50	1122	BZV32A	562	BZX71-C6V2	561	BZX96C5V1	565	BZY88-C4V7	565
BTD0106	1000	BY117	1104	BYX55-100	1122	BZV32B	562	BZX71-C9V1	562	BZX96C6V2	561	BZY88-C5V1	565
BTD0110	1000	BY118	1114	BYX55-300	1122	BZV33	562	BZX71-C12	563	BZX96C9V1	562	BZY88-C6V2	561
BTD0120	1000	BY119	1114	BYX60-50	1104	BZV33A	562	BZX71-C15	564	BZX96C12	563	BZY88-C9V1	562
BTD0140	1000	BY121	1104	BYX60-100	1104	BZV33B	562	BZX71B5V1	1114	BZX96C15	564	BZY88-C12	563
BTD0220	1000	BY122	1171	BYX60-200	1104	BZV34	562	BZX71B6V2	561	BZX97-C4V7	565	BZY88-C15	564
BTD0340	1000	BY124	1104	BYX60-300	1104	BZV34A	562	BZX71B9V1	562	BZX97-C5V1	565	BZY88C4V7	565
BTM-50	1141	BY125	1104	BYX60-400	1104	BZV34B	562	BZX71B12	563	BZX97-C6V2	561	BZY88C5V1	565
BTM50	1104	BY126	1104	BYX60-500	1104	BZV35	562	BZX71B15	564	BZX97-C9V1	562	BZY88C6V2	561
BTM1000	1114	BY126/50	1114	BYX60-600	1104	BZV35A	562	BZX71C5V1	565	BZX97-C12	563	BZY88C9V1	562
BTM1005	1000	BY126/100	1114	BYX65-700	1114	BZV35B	562	BZX71C6V2	561	BZX97-C15	564	BZY88C12	563
BTM1010	1000	BY126/200	1114	BYX55209	1114	BZV36	562	BZX71C9V1	562	BZX97C4V7	565	BZY88C12V	563
BTM1020	1000	BY126/300	1114	BYY31	1104	BZV36A	562	BZX71C12	563	BZX97C5V1	565	BZY88C15	564
BTS3100	1122	BY126/400	1114	BYY32	1104	BZV36B	562	BZX71C15	564	BZX97C6V2	561	BZY88C15V	564
BTX068	1617	BY-127	1104	BYY33	1104	BZV41C4V7	565	BZX72	562	BZX97C9V1	562	BZY92/C5V1	565
BTX-094	1617	BY127/500	1104	BYY34	1104	BZV41C5V1	565	BZX72A	562	BZX97C12	563	BZY92/C15	564
BTX-095	1617	BY127/600	1114	BYY35	1114	BZV41C6V2	561	BZX72B	562	BZX97C15	564	BZY92C4V7	565
BTX-096	1617	BY127/700	1114	BYY36	1114	BZV41C9V1	562	BZX72C	562	BZY17C6V2	561	BZY92C5V1	565
BTX18-100	1067	BY128	1114	BYY37	1114	BZV41C12	563	BZX74-C6V2	561	BZY17C9V1	562	BZY92C6V2	561
BTX18-200	1067	BY129	1114	BYY60	1114	BZV41C15	564	BZX74-C9V1	562	BZY17C12	563	BZY92C9V1	562
BTX18-300	1020	BY130	1104	BYY61	1114	BZV49C6V2	561	BZX74-C12	563	BZY17C15	564	BZY92C12	563
BTX18-400	1020	BY134	1104	BZ-056	565	BZV49C9V1	562	BZX74C6V2	561	BZY18	563	BZY92C15	564
BTX30-100	1067	BY135	1104	BZ050	565	BZV49C12	563	BZX74C9V1	562	BZY18C6V2	561	BZY94/C12	563
BTX30-200	1067	BY141	1104	BZ-058	561	BZV85C5V1	565	BZX74C12	563	BZY18C9V1	562	BZY94/C15	564
BTX30-300	1020	BY153	1104	BZ058	561	BZV85C6V2	561	BZX78C6V2	561	BZY18C11	563	BZY94-C12	563
BTX30-400	1020	BY156	1114	BZ-061	561	BZV85C9V1	562	BZX78C9V1	562	BZY18C12	563	BZY94-C15	564
BTX-2367B	1617	BY159-50	1173	BZ061	561	BZV85C12	563	BZX78C12	563	BZY19	564	BZY94C12	563
BTX2367B	1617	BY159-200	1173	BZ-063	561	BZV85C15	564	BZX78C15	564	BZY56	565	BZY94C15	564
BU67	1617	BY159-400	1173	BZ063	561	BZV85C33	562	BZX79/C9V1	562	BZY57	565	C05-10	1114
BU71	1617	BY164	1171	BZ-080	562	BZX10	561	BZX79/C12	563	BZY59	561	C06C	1104
BU105	2055	BY172	1114	BZ-085	562	BZX14	562	BZX79-C4V7	565	BZY63	562	C08F1F	1101
BU105-02	2055	BY173	1114	BZ-089	562	BZX17	562	BZX79-C5V1	565	BZY65	565	C049	1144
BU108	2055	BY179	1173	BZ085	562	BZX19	564	BZX79-C6V2	561	BZY66	561	C0406	1114
BU115	2055	BY186	1114	BZ-090	562	BZX29-C5V1	565	BZX79-C9V1	562	BZY68	562	C0410	1114
BU204	2055	BY201	1144	BZ090	562	BZX29-C6V2	561	BZX79-C12	563	BZY69	563	C0510	1114
BU205	2055	BY201-200	1104	BZ090.1Z9	562	BZX29-C9V1	562	BZX79-C15	564	BZY83/C5V1	565	C014348	1770
BU206	2055	BY201-300	1104	BZ-092	562	BZX29-C12	563	BZX79B9V1	562	BZY83/C15	564	C014809	2023
BU207	2055	BY201-400	1104	BZ092	562	BZX29-C15	564	BZX79C4V7	565	BZY83/C16	564	C018991	1604
BU208	2055	BY201-500	1104	BZ-094	562	BZX29C4V7	565	BZX79C5V1	565	BZY83/D15	564	C060607	1122
BU208A	2055	BY201-600	1104	BZ094	562	BZX29C5V1	565	BZX79C6V2	561	BZY83-C4V7	565	C1A	1122
BU208B	2055	BY206	1144	BZ-0901	562	BZX29C6V2	561	BZX79C9V1	562	BZY83-C5V1	565	C1B	1104
BU209	2055	BY210-400	1103	BZ1.90	562	BZX29C9V1	562	BZX79C12	563	BZY83-C6V2	561	C1N	1104
BU225	2055	BY251	1114	BZ4.7	565	BZX29C12	563	BZX79C15	564	BZY83-C9V1	562	C1 0892	1114
BU326	2055	BY252	1114	BZ5.1	565	BZX29C15	564	BZX79C15V	564	BZY83-C12	563	C2A1102	1104
BU326A	2055	BY253	1114	BZ6.2	561	BZX46-C4V7	565	BZX80-C9V1	562	BZY83-C15	564	C4C4.7	565
BU326R	2055	BY254	1114	BZ9.1	562	BZX46-C5V1	565	BZX81-C12	563	BZY83-D4V7	565	C4C5.1	565
BU326S	2055	BY255	1114	BZ-12	563	BZX46-C6V2	561	BZX81-C15	564	BZY83-D12	563	C4C6.2	561
BU500	2055	BY256	1171	BZ12	563	BZX46-C9V1	562	BZX83-C4V7	565	BZY83-D15	564	C4C9.1	562
BU526	2055	BY318-100	1122	BZ67	1617	BZX46-C12	563	BZX83-C5V1	565	BZY83C4V7	565	C4C12	563
BU536	2055	BY401	1104	BZ71	1617	BZX46-C15	564	BZX83-C6V2	561	BZY83C5V1	565	C4C15	564
BU546	2055	BY402	1104	BZ104	563	BZX46C4V7	565	BZX83-C9V1	562	BZY83C6V2	561	C4C12B	563
BU4011B	2411	BY403	1104	BZ104A	563	BZX46C5V1	565	BZX83-C15	564	BZY83C9V1	562	C5D5234	561
BUC-97704-2	2009	BY404	1104	BZ107	564	BZX46C6V2	561	BZX83C4V7	565	BZY83C12	563	C5D5239	562
BUT93	2023	BY405	1104	BZ107A	564	BZX46C9V1	562	BZX83C5V1	565	BZY83C15	564	C5D8242	563
BUY10	2041	BY406	1104	BZ-115	563	BZX46C12	563	BZX83C6V2	561	BZY83C16	564	C5D8345	564
BUY11	2041	BY407	1104	BZ115	563	BZX46C15	564	BZX83C9V1	562	BZY83D4V7	565	C8	2022

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C6A	1067	C17Y	1617	C22R	2030	C28L	1617	C33GN	2009	C46C(TRANS)	2030	C52C(TRANS)	1617
C6B	1067	C18(2S)	2009	C22X	2030	C28M	1617	C33H	2009	C46DB	2030	C52D(TRANS)	1617
C6B3	1067	C18A	1617	C22Y	2030	C28OR	1617	C33J	2009	C46E(TRANS)	2030	C52E(TRANS)	1617
C6F	1067	C18B	1617	C23(2S)	2030	C28R	1617	C33K	2009	C46F(TRANS)	2030	C52F(TRANS)	1617
C6U	1067	C18C	1617	C23A	2030	C28X	1617	C33L	2009	C46G(TRANS)	2030	C52G(TRANS)	1617
C7	2023	C18D	1617	C23B	2030	C28Y	1617	C33M	2009	C46GN	2030	C52GN	1617
C7A4	1067	C18E	1617	C23D	2030	C29(2S)	1617	C33OR	2009	C46H(TRANS)	2030	C52H(TRANS)	1617
C8	2023	C18F	1617	C23E	2030	C29A	1617	C33R	2009	C46J	2030	C52J	1617
C-10-20A	1122	C18G	1617	C23F	2030	C29B	1617	C33X	2009	C46K	2030	C52K	1617
C10-20A	1122	C18GN	1617	C23G	2030	C29C	1617	C33Y	2009	C46L	2030	C52L	1617
C10-22C	1122	C18H	1617	C23GN	2030	C29D	1617	C37(2S)	1617	C46M(TRANS)	2030	C52M(TRANS)	1617
C11S1C1E1C	1104	C18J	1617	C23H	2030	C29E	1617	C37A(TRANS)	1617	C46OR	2030	C52OR	1617
C12	2030	C18K	1617	C23H12B	1104	C29F	1617	C37B(TRANS)	1617	C46X	2030	C52X	1617
C12A(TRANS)	2030	C18L	1617	C23J	2030	C29G	1617	C37C(TRANS)	1617	C46Y	2030	C52Y	1617
C12B(TRANS)	2030	C18M	1617	C23K	2030	C29GN	1617	C37D(TRANS)	1617	C47(2S)	2030	C53	1617
C12C(TRANS)	2030	C18OR	1617	C23L	2030	C29H	1617	C37E(TRANS)	1617	C47A	2030	C53A	1617
C12D(TRANS)	2030	C18R	1617	C23M	2030	C29J	1617	C37F(TRANS)	1617	C47B	2030	C53B	1617
C12E	2030	C18X	1617	C23OR	2030	C29K	1617	C37G(TRANS)	1617	C47C	2030	C53C	1617
C12F(TRANS)	2030	C19(2S)	2030	C23R	2030	C29L	1617	C37GN	1617	C47D	2030	C53D	1617
C12G(TRANS)	2030	C19A	2030	C23X	2030	C29M	1617	C37H	1617	C47E	2030	C53E	1617
C12GN	2030	C19B	2030	C23Y	2030	C29OR	1617	C37J	1617	C47G	2030	C53F	1617
C12H(TRANS)	2030	C19C	2030	C24(2S)	2030	C29R	1617	C37K	1617	C47GN	2030	C53G	1617
C12J	2030	C19D	2030	C24A	2030	C29X	1617	C37L	1617	C47H	2030	C53GN	1617
C12K	2030	C19E	2030	C24B	2030	C29Y	1617	C37M(TRANS)	1617	C47J	2030	C53H	1617
C12L	2030	C19F	2030	C24C	2030	C30(2S)	2030	C37OR	1617	C47K	2030	C53J	1617
C12M	2030	C19G	2030	C24D	2030	C30-OR	2030	C37R	1617	C47L	2030	C53L	1617
C12OR	2030	C19GN	2030	C24E	2030	C30A(TRANS)	2030	C37X	1617	C47M	2030	C53OR	1617
C12R	2030	C19H	2030	C24F	2030	C30B(TRANS)	2030	C37Y	1617	C47OR	2030	C53R	1617
C12X	2030	C19J	2030	C24G	2030	C30C(TRANS)	2030	C38	2009	C47R	2030	C53X	1617
C12Y	2030	C19K	2030	C24GN	2030	C30D(TRANS)	2030	C38(2S)	1617	C47X	2030	C53Y	1617
C15	1617	C19L	2030	C24H	2030	C30E(TRANS)	2030	C38A(TRANS)	1617	C47Y	2030	C54(2S)	1617
C15-0	1617	C19M	2030	C24J	2030	C30F(TRANS)	2030	C38B(TRANS)	1617	C48(2S)	2030	C54A	1617
C15-1(2S)	1617	C19OR	2030	C24K	2030	C30G	2030	C38C(TRANS)	1617	C48A	2030	C54B	1617
C15-2(2S)	1617	C19R	2030	C24L	2030	C30GN	2030	C38D(TRANS)	1617	C48B	2030	C54C	1617
C15-3(2S)	1617	C19X	2030	C24M	2030	C30H	2030	C38E(TRANS)	1617	C48C(2S)	2030	C54D	1617
C15A(TRANS)	1617	C19Y	2030	C24OR	2030	C30J	2030	C38F(TRANS)	1617	C48D	2030	C54E	1617
C15B(TRANS)	1617	C20(2S)	2030	C24R	2030	C30L	2030	C38G(TRANS)	1617	C48E	2030	C54F	1617
C15C(TRANS)	1617	C20A(TRANS)	2030	C24X	2030	C30M(TRANS)	2030	C38H(TRANS)	1617	C48F	2030	C54G	1617
C15D(TRANS)	1617	C20B(TRANS)	2030	C24Y	2030	C30OR	2030	C38J	1617	C48G	2030	C54GN	1617
C15E(TRANS)	1617	C20C(TRANS)	2030	C25-06M	1104	C30R	2030	C38K	1617	C48GN	2030	C54H	1617
C15F(TRANS)	1617	C20D(TRANS)	2030	C26(2S)	1617	C30X	2030	C38L	1617	C48H	2030	C54J	1617
C15G(TRANS)	1617	C20E(TRANS)	2030	C26A	1617	C30Y	2030	C38M(TRANS)	1617	C48J	2030	C54K	1617
C15GN	1617	C20F(TRANS)	2030	C26B	1617	C31(2S)	2030	C38OR	1617	C48K	2030	C54L	1617
C15H(TRANS)	1617	C20G	2030	C26C	1617	C31A(TRANS)	2030	C38R	1617	C48L	2030	C54M	1617
C15J	1617	C20GN	2030	C26D	1617	C31B(TRANS)	2030	C38X	1617	C48M(TRANS)	2030	C54OR	1617
C15K	1617	C20H	2030	C26E	1617	C31C(TRANS)	2030	C38Y	1617	C48OR	2030	C54X	1617
C15L	1617	C20J	2030	C26F	1617	C31D(TRANS)	2030	C39	2016	C48R	2030	C54Y	1617
C15M(TRANS)	1617	C20K	2030	C26G	1617	C31E(TRANS)	2030	C39-207	1617	C48X	2030	C55(2S)	1617
C15OR	1617	C20L	2030	C26GN	1617	C31F(TRANS)	2030	C39A(2S)	2016	C48Y	2030	C55A(TRANS)	1617
C15R	1617	C20M(TRANS)	2030	C26H	1617	C31G	2030	C39B	2016	C49(2S)	2030	C55B(TRANS)	1617
C15X	1617	C20OR	2030	C26J	1617	C31GN	2030	C39C	2016	C49A(TRANS)	2030	C55C(TRANS)	1617
C15Y	1617	C20R	2030	C26K	1617	C31H	2030	C39D	2016	C49B(TRANS)	2030	C55D(TRANS)	1617
C16(2S)	1617	C20X	2030	C26L	1617	C31J	2030	C39E	2016	C49C(TRANS)	2030	C55E(TRANS)	1617
C16A(2S)	1617	C20Y	2030	C26M	1617	C31K	2030	C39F	2016	C49D(TRANS)	2030	C55F(TRANS)	1617
C16B	1617	C21	2041	C26OR	1617	C31L	2030	C39G	2016	C49E(TRANS)	2030	C55G(TRANS)	1617
C16C	1617	C21(2S)	2041	C26R	1617	C31M	2030	C39GN	2016	C49F	2030	C55GN	1617
C16D	1617	C21A	2041	C26X	1617	C31OR	2030	C39H	2016	C49G(TRANS)	2030	C55H(TRANS)	1617
C16E	1617	C21B	2041	C26Y	1617	C31R	2030	C39J	2016	C49GN	2030	C55J	1617
C16F	1617	C21C	2041	C27(2S)	1617	C31X	2030	C39K	2016	C49H	2030	C55K	1617
C16G	1617	C21D	2041	C27A	1617	C31Y	2030	C39L	2016	C49J	2030	C55L	1617
C16GN	1617	C21E	2041	C27B	1617	C32(2S)	2030	C39M	2016	C49K	2030	C55M(TRANS)	1617
C16H	1617	C21F	2041	C27D	1617	C32A	2030	C39OR	2016	C49L	2030	C55OR	1617
C16J	1617	C21G	2041	C27E	1617	C32A(2S)	2030	C39R	2016	C49M(TRANS)	2030	C55R	1617
C16K	1617	C21GN	2041	C27F	1617	C32B(TRANS)	2030	C39X	2016	C49OR	2030	C55X	1617
C16L	1617	C21H	2041	C27G	1617	C32C(TRANS)	2030	C39Y	2016	C49X	2030	C55Y	1617
C16M	1617	C21J	2041	C27GN	1617	C32D(TRANS)	2030	C40(2S)	2016	C49Y(2S)	2030	C56(2S)	2016
C16OR	1617	C21K	2041	C27H	1617	C32E(TRANS)	2030	C40A(TRANS)	2016	C51(2S)	2030	C56A(TRANS)	2016
C16R	1617	C21L	2041	C27J	1617	C32F(TRANS)	2030	C40B(TRANS)	2016	C51A	2030	C56B(TRANS)	2016
C16X	1617	C21M	2041	C27K	1617	C32G	2030	C40C(TRANS)	2016	C51B	2030	C56C(TRANS)	2016
C16Y	1617	C21OR	2041	C27L	1617	C32GN	2030	C40D(TRANS)	2016	C51C	2030	C56D(TRANS)	2016
C17(2S)	1617	C21R	2041	C27M	1617	C32H	2030	C40E(TRANS)	2016	C51D	2030	C56E(TRANS)	2016
C17A(2S)	1617	C21X	2041	C27OR	1617	C32J	2030	C40F(TRANS)	2016	C51E	2030	C56F(TRANS)	2016
C17B	1617	C21Y	2041	C27R	1617	C32K	2030	C40G(TRANS)	2016	C51F	2030	C56G(TRANS)	2016
C17C	1617	C22(2S)	2030	C27X	1617	C32L	2030	C40GN	2016	C51G	2030	C56GN	2016
C17D	1617	C22A(TRANS)	2030	C27Y	1617	C32M	2030	C40H(TRANS)	2016	C51GN	2030	C56H(TRANS)	2016
C17E	1617	C22B(TRANS)	2030	C28(2S)	1617	C32OR	2030	C40J	2016	C51H	2030	C56J	2016
C17F	1617	C22D(TRANS)	2030	C28A	1617	C32R	2030	C40K	2016	C51J	2030	C56K	2016
C17G	1617	C22E(TRANS)	2030	C28B	1617	C32X	2030	C40L	2016	C51K	2030	C56L	2016
C17GN	1617	C22F(TRANS)	2030	C28C	1617	C32Y	2030	C40OR	2016	C51L	2030	C56M(TRANS)	2016
C17H	1617	C22G	2030	C28D	1617	C33(2S)	2009	C40R	2016	C51M	2030	C56OR	2016
C17J	1617	C22GN	2030	C28E	1617	C33A(TRANS)	2009	C40X	2016	C51OR	2030	C56R	2016
C17K	1617	C22H	2030	C28F	1617	C33B(TRANS)	2009	C40Y	2016	C51R	2030	C56X	2016
C17L	1617	C22J	2030	C28G	1617	C33C(TRANS)	2009	C44-04	1104	C51X	2030	C56Y	2016
C17M	1617	C22K	2030	C28GN	1617	C33D(TRANS)	2009	C45(2S)	1617	C51Y	2030	C59(2S)	2030
C17OR	1617	C22L	2030	C28H	1617	C33E(TRANS)	2009	C46(2S)	2030	C52	1617	C59A	2030
C17R	1617	C22M	2030	C28J	1617	C33F(TRANS)	2009	C46A(TRANS)	2030	C52A(TRANS)	1617	C59B	2030
C17X	1617	C22OR	2030	C28K	1617	C33G	2009	C46B(TRANS)	2030	C52B(TRANS)	1617	C59C	2030

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C59D	2030	C67B	1617	C79R	2058	C95OR	2030	C103G	1617	C107D1	1020	C109K	2030
C59E	2030	C67C	1617	C79X	2058	C95R	2030	C103GN	1617	C107D2	1020	C109L	2030
C59F	2030	C67D	1617	C79Y	2058	C95X	2030	C103H	1617	C107D3	1020	C109OR	2030
C59G	2030	C67E	1617	C80	2016	C95Y	2030	C103J	1617	C107D4	1020	C109R	2030
C59GN	2030	C67F	1617	C80(2S)	2016	C96	2009	C103K	1617	C107F	1067	C109X	2030
C59H	2030	C67G	1617	C80A(TRANS)	2016	C97	2030	C103L	1617	C107F1	1067	C109Y	2030
C59J	2030	C67GN	1617	C80B(TRANS)	2016	C97(2S)	2030	C103M	1617	C107F2	1067	C110(2S)	1617
C59K	2030	C67H	1617	C80C(TRANS)	2016	C97A(2S)	2030	C103Q	1067	C107F3	1067	C110A	1617
C59L	2030	C67J	1617	C80D(TRANS)	2016	C97B	2030	C103X	1617	C107F4	1067	C110B	1617
C59M	2030	C67K	1617	C80E(TRANS)	2016	C97C	2030	C103Y	1067	C107G4	2020	C110C	1617
C59OR	2030	C67L	1617	C80F(TRANS)	2016	C97D	2030	C103Y(2S)	1617	C107G5	2020	C110D	1617
C59R	2030	C67M	1617	C80G	2016	C97E	2030	C103YY	1067	C107G6	2020	C110E	1617
C59X	2030	C67R	1617	C80G(TRANS)	2016	C97F	2030	C104	1617	C107Q	1067	C110F	1617
C59Y	2030	C67X	1617	C80GN	2016	C97G	2030	C104(2S)	1617	C107Q1	1067	C110G	1617
C61(2S)	2030	C67Y	1617	C80H(TRANS)	2016	C97GN	2030	C104A(2S)	1617	C107Q2	1067	C110GN	1617
C61A	2030	C68(2S)	1617	C80J	2016	C97H	2030	C104B	1617	C107Q3	1067	C110H	1617
C61B	2030	C68A	1617	C80K	2016	C97J	2030	C104C	1617	C107Q4	1067	C110J	1617
C61C	2030	C68B	1617	C80L	2016	C97K	2030	C104D	1617	C107Y	1067	C110K	1617
C61D	2030	C68C	1617	C80M(TRANS)	2016	C97L	2030	C104E	1617	C107Y1	1067	C110L	1617
C61E	2030	C68D	1617	C80OR	2016	C97M	2030	C104F	1617	C107Y2	1067	C110M	1617
C61F	2030	C68E	1617	C80R	2016	C97OR	2030	C104G	1617	C107Y3	1067	C110OR	1617
C61G	2030	C68F	1617	C80X	2016	C97R	2030	C104GN	1617	C107Y4	1067	C110R	1617
C61GN	2030	C68G	1617	C80Y	2016	C97X	2030	C104H	1617	C108(2S)	2030	C110X	1617
C61H	2030	C68GN	1617	C82	2016	C97Y	2030	C104J	1617	C108A	1067	C110Y	1617
C61J	2030	C68H	1617	C82BN	2016	C98(2S)	1617	C104K	1617	C108A(TRANS)	2030	C111(2S)	1617
C61K	2030	C68J	1617	C82R	2016	C98A	1617	C104L	1617	C108A1	1067	C111A	1617
C61L	2030	C68K	1617	C82S	2016	C98B	1617	C104M	1617	C108A2	1067	C111B	2016
C61M	2030	C68L	1617	C83	2016	C98C	1617	C104OR	1617	C108A3	1067	C111B(TRANS)	1617
C61OR	2030	C68M	1617	C83-829	1104	C98D	1617	C104R	1617	C108A4	1067	C111C	1617
C61R	2030	C68OR	1617	C83-880	1104	C98E(2S)	1617	C104X	1617	C108A-O	2030	C111D	1617
C61Y	2030	C68R	1617	C87(2S)	1617	C98F	1617	C104Y	1617	C108A-R	2030	C111E	1617
C62	1617	C68X	1617	C87A	1617	C98G	1617	C105(2S)	1617	C108B	1067	C111E(TRANS)	1617
C62A(TRANS)	1617	C68Y	1617	C87B	1617	C98GN	1617	C105B	1617	C108B(TRANS)	2030	C111F	1617
C62B(TRANS)	1617	C69(2S)	2030	C87C	1617	C98H	1617	C106A	1067	C108B1	1067	C111G	1617
C62C(TRANS)	1617	C69A	2030	C87D	1617	C98J	1617	C106A1	1067	C108B2	1067	C111GN	1617
C62D(TRANS)	1617	C69B	2030	C87E	1617	C98K	1617	C106A2	1067	C108B3	1067	C111H	1617
C62E(TRANS)	1617	C69C	2030	C87F	1617	C98L	1617	C106A3	1067	C108B4	1067	C111J	1617
C62F(TRANS)	1617	C69D	2030	C87G	1617	C98M	1617	C106A4	1067	C108C	1020	C111K	1617
C62G(TRANS)	1617	C69E	2030	C87GN	1617	C98OR	1617	C106B	1067	C108C(TRANS)	2030	C111L	1617
C62GN	1617	C69F	2030	C87H	1617	C98R	1617	C106B1	1067	C108C1	1020	C111M	1617
C62H(TRANS)	1617	C69G	2030	C87J	1617	C98X	1617	C106B2	1067	C108C2	1020	C111OR	1617
C62J	1617	C69GN	2030	C87K	1617	C98Y	1617	C106B3	1067	C108C3	1020	C111R	1617
C62L	1617	C69H	2030	C87L	1617	C99(2S)	1617	C106B4	1067	C108C4	1020	C111X	1617
C62M	1617	C69J	2030	C87M	1617	C99A	1617	C106C	1020	C108D	1020	C111Y	1617
C62OR	1617	C69K	2030	C87OR	1617	C99B	1617	C106C1	1020	C108D(TRANS)	2030	C112(2S)	2030
C62R	1617	C69L	2030	C87R	1617	C99C	1617	C106C2	1020	C108D1	1020	C112A	2030
C62X	1617	C69M	2030	C87X	1617	C99D	1617	C106C3	1020	C108D2	1020	C112B	2030
C62Y	1617	C69OR	2030	C87Y	1617	C99E	1617	C106C4	1020	C108D3	1020	C112C	2030
C63	1617	C69R	2030	C88(2S)	2030	C99F	1617	C106D	1020	C108D4	1020	C112D	2030
C63(2S)	2016	C69X	2030	C88A(2S)	2030	C99G	1617	C106D1	1020	C108E(TRANS)	2030	C112E	2030
C63A	2016	C69Y	2030	C88B	2030	C99GN	1617	C106D2	1020	C108F	1067	C112F	2030
C63B	2016	C74(2S)	1617	C88C	2030	C99H	1617	C106D3	1020	C108F(TRANS)	2030	C112G	2030
C63D	2016	C74-GR	1617	C88D	2030	C99J	1617	C106D4	1020	C108F1	1067	C112GN	2030
C63E	2016	C74-O	1617	C88E	2030	C99K	1617	C106F	1067	C108F2	1067	C112H	2030
C63F	2016	C74-R	1617	C88F	2030	C99L	1617	C106F1	1067	C108F3	1067	C112J	2030
C63G	2016	C74-Y	1617	C88G	2030	C99M	1617	C106F2	1067	C108F4	1067	C112K	2030
C63GN	2016	C74A	1617	C88GN	2030	C99OR	1617	C106F3	1067	C108G	2030	C112L	2030
C63H	2016	C74B	1617	C88H	2030	C99R	1617	C106F4	1067	C108GN	2030	C112M	2030
C63J	2016	C74C	1617	C88J	2030	C99X	1617	C106G1	1067	C108H	2030	C112OR	2030
C63K	2016	C74D	1617	C88K	2030	C99Y	1617	C106G2	1067	C108J	2030	C112R	2030
C63L	2016	C74E	1617	C88L	2030	C100(2S)	1617	C106G3	1067	C108K	2030	C112X	2030
C63M	2016	C74F	1617	C88M	2030	C100-OY(2S)	1617	C106Q	1067	C108L	2030	C112Y	2030
C63OR	2016	C74G	1617	C88OR	2030	C100A	1617	C106Q1	1067	C108M(TRANS)	2030	C113(2S)	2030
C63R	2016	C74GN	1617	C88R	2030	C100B	1617	C106Q2	1067	C108OR	2030	C113A	2030
C63X	2016	C74H	1617	C88X	2030	C100C	1617	C106Q3	1067	C108Q2	1067	C113B	2030
C63Y	2016	C74J	1617	C88Y	2030	C100D	1617	C106Q4	1067	C108Q3	1067	C113C	2030
C64	2030	C74K	1617	C92(2S)	2020	C100E	1617	C106Y	1067	C108Q4	1067	C113D	2030
C64(2S)	2030	C74L	1617	C93(2S)	2020	C100F	1617	C106Y1	1067	C108R	2030	C113E	2030
C64A	2030	C74M	1617	C94(2S)	2020	C100G	1617	C106Y2	1067	C108X	2030	C113F	2030
C64B	2030	C74R	1617	C94AP	2020	C100GN	1617	C106Y3	1067	C108Y(TRANS)	2030	C113G	2030
C64C	2030	C74X	1617	C94E	2062	C100J	1617	C106Y4	1067	C108Y2	1067	C113GN	2030
C64D	2030	C74Y	1617	C95	2030	C100L	1617	C107	2020	C108Y3	1067	C113H	2030
C64E	2030	C79(2S)	2058	C95(2S)	2030	C100M	1617	C107A	1067	C108Y4	1067	C113J	2030
C64F	2030	C79A	2058	C95A	2030	C100OR	1617	C107A1	1067	C109(2S)	2030	C113K	2030
C64G	2030	C79B	2058	C95A(2S)	2030	C100R	1617	C107A2	1067	C109A(2S)	2030	C113L	2030
C64GN	2030	C79C	2058	C95B	2030	C100X	1617	C107A3	1067	C109A-O	2030	C113M	2030
C64H	2030	C79D	2058	C95C	2030	C100Y	1617	C107B	1067	C109A-R	2030	C113OR	2030
C64K	2030	C79E	2058	C95D	2030	C103	1617	C107B1	1067	C109A-Y	2030	C113R	2030
C64L	2030	C79F	2058	C95E(2S)	2030	C103(2S)	1617	C107B2	1067	C109B	2030	C113X	2030
C64M	2030	C79G	2058	C95F	2030	C103A(2S)	1617	C107B3	1067	C109C	2030	C113Y	2030
C64OR	2030	C79GN	2058	C95G	2030	C103A(SCR)	1067	C107B4	1067	C109D	2030	C114(2S)	2030
C64R	2030	C79H	2058	C95GN	2030	C103B	1067	C107C	1020	C109E	2030	C114A	2030
C64X	2030	C79J	2058	C95H	2030	C103B(2S)	1617	C107C1	1020	C109F	2030	C114B	2030
C64Y	2030	C79K	2058	C95J	2030	C103C	1617	C107C2	1020	C109G	2030	C114C	2030
C64Y-RST	2030	C79L	2058	C95K	2030	C103D	1617	C107C3	1020	C109G1	2030	C114D	2030
C67(2S)	1617	C79M	2058	C95L	2030	C103E	1617	C107C4	1020	C109GN	2030	C114E	2030
C67A	1617	C79OR	2058	C95M	2030	C103F	1617	C107D	1020	C109J	2030	C114F	2030

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C114G	2030	C119(2S)	2030	C124(2S)	2030	C132X	1617	C138R	1617	C151B	1617	C157K	1617
C114GN	2030	C119A	2030	C124A(TRANS)	2030	C132Y	1617	C138S	1617	C151C	1617	C157L	1617
C114H	2030	C119B	2030	C124B(TRANS)	2030	C133(2S)	1617	C138X	1617	C151D	1617	C157M(TRANS)	1617
C114J	2030	C119C	2030	C124C(TRANS)	2030	C133A	1617	C139	1617	C151E(TRANS)	1617	C157OR	1617
C114K	2030	C119D	2030	C124D(TRANS)	2030	C133C	1617	C139A	1617	C151G	1617	C157R	1617
C114L	2030	C119E	2030	C124E(TRANS)	2030	C133D	1617	C139B	1617	C151GN	1617	C157Y	1617
C114M	2030	C119F	2030	C124F(TRANS)	2030	C133E	1617	C139C	1617	C151H	1617	C158(2S)	1617
C114OR	2030	C119G	2030	C124G	2030	C133F	1617	C139D	1617	C151HA	1617	C158A	1617
C114R	2030	C119GN	2030	C124GN	2030	C133G	1617	C139E	1617	C151HB	1617	C158B	1617
C114X	2030	C119H	2030	C124H	2030	C133GN	1617	C139F	1617	C151HC	1617	C158C	1617
C114Y	2030	C119J	2030	C124J	2030	C133H	1617	C139G	1617	C151J	1617	C158D	1617
C115(2S)	2030	C119K	2030	C124K	2030	C133J	1617	C139GN	1617	C151K	1617	C158E(TRANS)	1617
C115-1	2030	C119L	2030	C124L	2030	C133K	1617	C139H	1617	C151L	1617	C158F	1617
C115-2	2030	C119M	2030	C124M(TRANS)	2030	C133L	1617	C139J	1617	C151M(TRANS)	1617	C158G(TRANS)	1617
C115-3	2030	C119OR	2030	C124OR	2030	C133M	1617	C139K	1617	C151OR	1617	C158GN	1617
C115-43	2030	C119R	2030	C124R	2030	C133OR	1617	C139M	1617	C151R	1617	C158H	1617
C115A	2030	C119X	2030	C124X	2030	C133X	1617	C139OR	1617	C151X	1617	C158J	1617
C115B	2030	C119Y	2030	C124Y	2030	C133Y	1617	C139R	1617	C151Y	1617	C158K	1617
C115C	2030	C120(2S)	1617	C125(2S)	2030	C134(2S)	1617	C139X	1617	C152	1617	C158L	1617
C115D	2030	C120A	1617	C127(2S)	1617	C134A	1617	C139Y	1617	C152A	1617	C158M(TRANS)	1617
C115E	2030	C120B	1617	C127A(TRANS)	1617	C134B(2S)	1617	C140	2030	C152B	1617	C158OR	1617
C115F	2030	C120C	1617	C127B(TRANS)	1617	C134C	1617	C140A(TRANS)	2030	C152C	1617	C158R	1617
C115G	2030	C120D	1617	C127C(TRANS)	1617	C134D	1617	C140C(TRANS)	2030	C152D	1617	C158X	1617
C115GN	2030	C120E	1617	C127D(TRANS)	1617	C134E	1617	C140D(TRANS)	2030	C152E(TRANS)	1617	C158Y	1617
C115H	2030	C120F	1617	C127E(TRANS)	1617	C134F	1617	C140E	2030	C152F	1617	C159(2S)	1617
C115J	2030	C120G	1617	C127F(TRANS)	1617	C134G	1617	C140F(TRANS)	2030	C152G	1617	C159A	1617
C115K	2030	C120GN	1617	C127G	1617	C134GN	1617	C140G	2030	C152GN	1617	C159B	1617
C115L	2030	C120H	1617	C127GN	1617	C134H	1617	C140GN	2030	C152H	1617	C159C	1617
C115M	2030	C120J	1617	C127H	1617	C134J	1617	C140H	2030	C152HA	1617	C159D	1617
C115OR	2030	C120K	1617	C127J	1617	C134K	1617	C140J	2030	C152HB	1617	C159E(TRANS)	1617
C115R	2030	C120M	1617	C127K	1617	C134L	1617	C140K	2030	C152HC	1617	C159F	1617
C115X	2030	C120R	1617	C127L	1617	C134M	1617	C140L	2030	C152J	1617	C159GN	1617
C115Y	2030	C120Y	1617	C127M(TRANS)	1617	C134OR	1617	C140M	2030	C152K	1617	C159H	1617
C116(2S)	2009	C121(2S)	2030	C127OR	1617	C134R	1617	C140OR	2030	C152L	1617	C159J	1617
C116-OR	2009	C121A	2030	C127R	1617	C134X	1617	C140R	2030	C152M(TRANS)	1617	C159K	1617
C116A(TRANS)	2009	C121B	2030	C127X	1617	C134Y	1617	C140X	2030	C152OR	1617	C159L	1617
C116B(TRANS)	2009	C121C	2030	C127Y	1617	C135(2S)	1617	C140Y	2030	C152R	1617	C159M(TRANS)	1617
C116C(TRANS)	2009	C121D	2030	C130(2S)	2030	C135A(TRANS)	1617	C141	2009	C152X	1617	C159OR	1617
C116D(TRANS)	2009	C121E	2030	C130A	2030	C135B(TRANS)	1617	C142	2009	C152Y	1617	C159R	1617
C116E	2009	C121F	2030	C130B	2030	C135C(TRANS)	1617	C143	2009	C153	2009	C159X	1617
C116F(TRANS)	2009	C121G	2030	C130C	2030	C135D(TRANS)	1617	C144	2009	C154B	2020	C159Y	1617
C116G	2009	C121GN	2030	C130D	2030	C135E(TRANS)	1617	C144A	2009	C155	2016	C160(2S)	1617
C116GN	2009	C121H	2030	C130E	2030	C135F(TRANS)	1617	C145	2009	C155(2S)	2016	C160A	1617
C116H	2009	C121J	2030	C130F	2030	C135G	1617	C146	2009	C155A(TRANS)	2016	C160B	1617
C116J	2009	C121L	2030	C130GN	2030	C135GN	1617	C146A(2S)	2009	C155B(TRANS)	2016	C160C	1617
C116K	2009	C121M	2030	C130H	2030	C135H	1617	C146B	1617	C155C(TRANS)	2016	C160D	1617
C116L	2009	C121OR	2030	C130J	2030	C135J	1617	C148	2016	C155D(TRANS)	2016	C160E	1617
C116M(TRANS)	2009	C121R	2030	C130K	2030	C135L	1617	C148A	2016	C155E(TRANS)	2016	C160F	1617
C116OR	2009	C121X	2030	C130L	2030	C135M(TRANS)	1617	C148B	2016	C155F	2016	C160G	1617
C116R	2009	C121Y	2030	C130M	2030	C135OR	1617	C148D	2016	C155GN	2016	C160GN	1617
C116T(2S)	2009	C122	2009	C130OR	2030	C135R	1617	C148E	2016	C155H	2016	C160H	1617
C116X	2009	C122(2S)	2030	C130R	2030	C135X	1617	C148F	2016	C155J	2016	C160J	1617
C116Y	2009	C122A(TRANS)	2030	C130X	2030	C135Y	1617	C148G	2016	C155K	2016	C160K	1617
C117(2S)	2030	C122B(TRANS)	2030	C130Y	2030	C136(2S)	1617	C148GN	2016	C155L	2016	C160L	1617
C117A	2030	C122C(TRANS)	2030	C131(2S)	1617	C136D(2S)	1617	C148H	2016	C155M(TRANS)	2016	C160M	1617
C117B	2030	C122D(TRANS)	2030	C131A	1617	C137	1617	C148J	2016	C155OR	2016	C160OR	1617
C117C	2030	C122E(TRANS)	2030	C131B	1617	C137A	1617	C148K	2016	C155R	2016	C160R	1617
C117D	2030	C122F(TRANS)	2030	C131C	1617	C137B	1617	C148L	2016	C155X	2016	C160X	1617
C117F	2030	C122G	2030	C131D	1617	C137C	1617	C148M(TRANS)	2016	C155Y	2016	C160Y	1617
C117G	2030	C122GN	2030	C131E	1617	C137D	1617	C148OR	2016	C156(2S)	2016	C162	2009
C117GN	2030	C122H	2030	C131F	1617	C137E(TRANS)	1617	C148R	2016	C156A(TRANS)	2016	C166	1617
C117H	2030	C122J	2030	C131G	1617	C137F	1617	C148X	2016	C156B(TRANS)	2016	C166(2S)	1617
C117J	2030	C122K	2030	C131GN	1617	C137G	1617	C148Y	2016	C156C(TRANS)	2016	C166A	1617
C117K	2030	C122L	2030	C131H	1617	C137GN	1617	C149	2030	C156D(TRANS)	2016	C166B	1617
C117L	2030	C122M(TRANS)	2030	C131J	1617	C137H	1617	C150(2S)	2030	C156E(TRANS)	2016	C166C	1617
C117M	2030	C122OR	2030	C131L	1617	C137J	1617	C150-OR	2030	C156F	2016	C166D	1617
C117OR	2030	C122R	2030	C131M	1617	C137K	1617	C150A	2030	C156G(TRANS)	2016	C166E	1617
C117R	2030	C122X	2030	C131OR	1617	C137L	1617	C150B	2030	C156GN	2016	C166F	1617
C117X	2030	C122Y	2030	C131R	1617	C137M(TRANS)	1617	C150C	2030	C156H	2016	C166G	1617
C117Y	2030	C123	2030	C131T	1617	C137OR	1617	C150D	2030	C156J	2016	C166GN	1617
C118(2S)	2030	C123A	2030	C131Y	1617	C137R	1617	C150E(TRANS)	2030	C156K	2016	C166H	1617
C118A(TRANS)	2030	C123B	2030	C132(2S)	1617	C137X	1617	C150F	2030	C156L	2016	C166J	1617
C118B(TRANS)	2030	C123C	2030	C132A	1617	C137Y	1617	C150G	2030	C156M(TRANS)	2016	C166K	1617
C118C(TRANS)	2030	C123D	2030	C132B	1617	C138	1617	C150GN	2030	C156OR	2016	C166L	1617
C118D(TRANS)	2030	C123E	2030	C132C	1617	C138A(2S)	1617	C150H	2030	C156R	2016	C166M	1617
C118E(TRANS)	2030	C123F	2030	C132D	1617	C138B	1617	C150J	2030	C156X	2016	C166OR	1617
C118F(TRANS)	2030	C123G	2030	C132E	1617	C138C	1617	C150K	2030	C156Y	2016	C166R	1617
C118G	2030	C123GN	2030	C132F	1617	C138D	1617	C150L	2030	C157(2S)	1617	C166X	1617
C118GN	2030	C123H	2030	C132G	1617	C138E	1617	C150M(TRANS)	2030	C157A(TRANS)	1617	C166Y	1617
C118H	2030	C123J	2030	C132GN	1617	C138F	1617	C150OR	2030	C157B(TRANS)	1617	C167(2S)	1617
C118J	2030	C123K	2030	C132H	1617	C138G	1617	C150R	2030	C157C(TRANS)	1617	C167A	1617
C118L	2030	C123L	2030	C132J	1617	C138GN	1617	C150T	2030	C157D(TRANS)	1617	C167B	1617
C118M(TRANS)	2030	C123M	2030	C132K	1617	C138H	1617	C150T(2S)	2030	C157E(TRANS)	1617	C167C	1617
C118OR	2030	C123OR	2030	C132L	1617	C138J	1617	C150X	2030	C157F	1617	C167D	1617
C118R	2030	C123R	2030	C132M	1617	C138L	1617	C150Y	2030	C157G(TRANS)	1617	C167E	1617
C118X	2030	C123X	2030	C132OR	1617	C138M	1617	C151(2S)	1617	C157GN	1617	C167F	1617
C118Y	2030	C123Y	2030	C132R	1617	C138OR	1617	C151A	1617	C157J	1617	C167G	1617

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C167GN	1617	C186D	2016	C191A	1617	C196(2S)	1617	C201L	1617	C208C	2016	C217(2S)	2030
C167H	1617	C186E	2016	C191B	1617	C196A	1617	C201M	1617	C208D	2016	C217A	2030
C167K	1617	C186F	2016	C191C	1617	C196B	1617	C201R	1617	C208E	2016	C217B	2030
C167L	1617	C186G	2016	C191D	1617	C196C	1617	C201X	1617	C208F	2016	C217C	2030
C167M	1617	C186GN	2016	C191E	1617	C196D	1617	C201Y	1617	C208G	2016	C217D	2030
C167OR	1617	C186H	2016	C191F	1617	C196E	1617	C202(2S)	1617	C208GN	2016	C217E	2030
C167X	1617	C186J	2016	C191G	1617	C196F	1617	C202A	1617	C208H	2016	C217F	2030
C167Y	1617	C186K	2016	C191GN	1617	C196G	1617	C202B	1617	C208J	2016	C217G	2030
C168	2009	C186L	2016	C191H	1617	C196GN	1617	C202C	1617	C208K	2016	C217GN	2030
C169(2S)	1617	C186M	2016	C191J	1617	C196H	1617	C202D	1617	C208L	2016	C217H	2030
C170(2S)	1617	C186OR	2016	C191K	1617	C196J	1617	C202E	1617	C208M	2016	C217J	2030
C170A	1617	C186R	2016	C191L	1617	C196K	1617	C202F	1617	C208OR	2016	C217K	2030
C170B	1617	C186X	2016	C191M	1617	C196L	1617	C202G	1617	C208R	2016	C217L	2030
C170C	1617	C186Y	2016	C191OR	1617	C196M	1617	C202GN	1617	C208X	2016	C217M	2030
C170D	1617	C187(2S)	2016	C191R	1617	C196OR	1617	C202H	1617	C208Y	2016	C217OR	2030
C170E	1617	C187-OR	2016	C191X	1617	C196R	1617	C202J	1617	C210	2030	C217R	2030
C170F	1617	C187A	2016	C191Y	1617	C196X	1617	C202K	1617	C210(2S)	2030	C217X	2030
C170G	1617	C187B	2016	C192(2S)	1617	C196Y	1617	C202L	1617	C210A	2030	C217Y	2030
C170GN	1617	C187C	2016	C192A	1617	C197(2S)	1617	C202M	1617	C210B	2030	C218(2S)	2030
C170H	1617	C187D	2016	C192B	1617	C197A	1617	C202OR	1617	C210C	2030	C218A(2S)	2030
C170J	1617	C187E	2016	C192C	1617	C197B	1617	C202R	1617	C210D	2030	C218B	2030
C170K	1617	C187F	2016	C192D	1617	C197C	1617	C202X	1617	C210E	2030	C218C	2030
C170L	1617	C187G	2016	C192E	1617	C197D	1617	C202Y	1617	C210F	2030	C218D	2030
C170M	1617	C187H	2016	C192F	1617	C197E	1617	C203A	1067	C210G	2030	C218E	2030
C170OR	1617	C187I	2016	C192G	1617	C197F	1617	C203B	1067	C210GN	2030	C218F	2030
C170R	1617	C187J	2016	C192GN	1617	C197G	1617	C203C	1020	C210H	2030	C218G	2030
C170X	1617	C187K	2016	C192H	1617	C197GN	1617	C203D	1020	C210J	2030	C218GN	2030
C170Y	1617	C187L	2016	C192J	1617	C197H	1617	C203Y	1067	C210K	2030	C218H	2030
C171(2S)	1617	C187M	2016	C192K	1617	C197J	1617	C203YY	1067	C210L	2030	C218J	2030
C171A	1617	C187OR	2016	C192L	1617	C197K	1617	C204(2S)	1617	C210M	2030	C218L	2030
C171B	1617	C187R	2016	C192M	1617	C197L	1617	C204A	1617	C210OR	2030	C218M	2030
C171C	1617	C187X	2016	C192OR	1617	C197M	1617	C204B	1617	C210R	2030	C218OR	2030
C171D	1617	C187Y	2016	C192R	1617	C197OR	1617	C204C	1617	C210X	2030	C218R	2030
C171E	1617	C188(2S)	2030	C192X	1617	C197R	1617	C204D	1617	C210Y	2030	C218X	2030
C171F	1617	C188A(2S)	2030	C192Y	1617	C197X	1617	C204E	1617	C211(2S)	2030	C218Y	2030
C171G	1617	C188AB(2S)	2030	C193(2S)	1617	C197Y	1617	C204F	1617	C211A	2030	C219	2016
C171GN	1617	C188B	2030	C193A	1617	C198(2S)	2041	C204G	1617	C211B	2030	C220(2S)	2030
C171H	1617	C188C	2030	C193B	1617	C198A	2041	C204GN	1617	C211C	2030	C220A(TRANS)	2030
C171J	1617	C188D	2030	C193C	1617	C198H	2041	C204H	1617	C211D	2030	C220B(TRANS)	2030
C171K	1617	C188E	2030	C193D	1617	C199(2S)	1617	C204J	1617	C211F	2030	C220C(TRANS)	2030
C171L	1617	C188F	2030	C193E	1617	C199A	1617	C204K	1617	C211G	2030	C220D(TRANS)	2030
C171M	1617	C188G	2030	C193F	1617	C199B	1617	C204L	1617	C211GN	2030	C220E(TRANS)	2030
C171OR	1617	C188GN	2030	C193G	1617	C199C	1617	C204M	1617	C211H	2030	C220F(TRANS)	2030
C171R	1617	C188J	2030	C193GN	1617	C199D	1617	C204OR	1617	C211J	2030	C220G	2030
C171X	1617	C188K	2030	C193H	1617	C199E	1617	C204R	1617	C211K	2030	C220GN	2030
C171Y	1617	C188L	2030	C193J	1617	C199F	1617	C204X	1617	C211L	2030	C220H	2030
C172(2S)	1617	C188M	2030	C193K	1617	C199G	1617	C204Y	1617	C211M	2030	C220K	2030
C172A(2S)	1617	C188OR	2030	C193L	1617	C199GN	1617	C205(2S)	1617	C211OR	2030	C220L	2030
C172B	1617	C188R	2030	C193M	1617	C199H	1617	C205A(TRANS)	1617	C211R	2030	C220M(TRANS)	2030
C172C	1617	C188X	2030	C193OR	1617	C199J	1617	C205B(TRANS)	1617	C211X	2030	C220OR	2030
C172D	1617	C188Y	2030	C193R	1617	C199K	1617	C205C(TRANS)	1617	C211Y	2030	C220R	2030
C172E	1617	C189(2S)	2030	C193X	1617	C199L	1617	C205D(TRANS)	1617	C212(2S)	2030	C220X	2030
C172F	1617	C189A	2030	C194(2S)	1617	C199M	1617	C205F	1617	C212A	2030	C220Y	2030
C172G	1617	C189B	2030	C194A	1617	C199OR	1617	C205G	1617	C212B	2030	C221(2S)	2030
C172GN	1617	C189C	2030	C194B	1617	C199R	1617	C205GN	1617	C212C	2030	C221A	2030
C172H	1617	C189D	2030	C194C	1617	C199X	1617	C205H	1617	C212D	2030	C221B	2030
C172J	1617	C189E	2030	C194D	1617	C199Y	1617	C205J	1617	C212E	2030	C221C	2030
C172K	1617	C189F	2030	C194E	1617	C200	1617	C205K	1617	C212F	2030	C221D	2030
C172L	1617	C189G	2030	C194F	1617	C200A	1617	C205L	1617	C212G	2030	C221E	2030
C172M	1617	C189GN	2030	C194G	1617	C200B	1617	C205M	1617	C212GN	2030	C221F	2030
C172OR	1617	C189H	2030	C194GN	1617	C200C	1617	C205OR	1617	C212H	2030	C221G	2030
C172R	1617	C189J	2030	C194H	1617	C200D	1617	C205R	1617	C212J	2030	C221GN	2030
C172Y	1617	C189K	2030	C194J	1617	C200E	1617	C205X	1617	C212K	2030	C221H	2030
C174(2S)	1617	C189L	2030	C194K	1617	C200F	1617	C205Y(TRANS)	1617	C212L	2030	C221J	2030
C174A(2S)	1617	C189M	2030	C194L	1617	C200G	1617	C206(2S)	2016	C212M	2030	C221K	2030
C174B	1617	C189OR	2030	C194M	1617	C200GN	1617	C206-OR	2016	C212OR	2030	C221L	2030
C174C	1617	C189R	2030	C194OR	1617	C200H	1617	C206A	2016	C212R	2030	C221M	2030
C174D	1617	C189X	2030	C194X	1617	C200J	1617	C206B	2016	C212X	2030	C221OR	2030
C174E	1617	C189Y	2030	C194Y	1617	C200K	1617	C206C	2016	C212Y	2030	C221R	2030
C174F	1617	C190(2S)	2030	C195(2S)	1617	C200L	1617	C206D	2016	C216(2S)	2030	C221X	2030
C174G	1617	C190A	2030	C195A	1617	C200M	1617	C206E	2016	C216A	2030	C221Y	2030
C174GN	1617	C190B	2030	C195B	1617	C200OR	1617	C206G	2016	C216B	2030	C222(2S)	2030
C174H	1617	C190C	2030	C195C	1617	C200R	1617	C206GN	2016	C216C	2030	C222A(TRANS)	2030
C174J	1617	C190D	2030	C195D	1617	C200X	1617	C206H	2016	C216D	2030	C222B(TRANS)	2030
C174K	1617	C190E	2030	C195E	1617	C200Y	1617	C206J	2016	C216E	2030	C222C(TRANS)	2030
C174L	1617	C190F	2030	C195F	1617	C201(2S)	1617	C206K	2016	C216F	2030	C222D(TRANS)	2030
C174M	1617	C190GN	2030	C195G	1617	C201A	1617	C206L	2016	C216G	2030	C222E(TRANS)	2030
C174OR	1617	C190H	2030	C195GN	1617	C201B	1617	C206M	2016	C216GN	2030	C222F(TRANS)	2030
C174Q	1617	C190J	2030	C195H	1617	C201C	1617	C206OR	2016	C216H	2030	C222G	2030
C174R	1617	C190K	2030	C195J	1617	C201D	1617	C206R	2016	C216J	2030	C222GN	2030
C174S	1617	C190L	2030	C195K	1617	C201E	1617	C206RED	2016	C216K	2030	C222H	2030
C174X	1617	C190M	2030	C195L	1617	C201F	1617	C206WHITE	2016	C216L	2030	C222J	2030
C174Y	1617	C190OR	2030	C195M	1617	C201G	1617	C206X	2016	C216M	2030	C222L	2030
C186(2S)	2016	C190R	2030	C195OR	1617	C201GN	1617	C206Y	2016	C216OR	2030	C222M(TRANS)	2030
C186A	2016	C190X	2030	C195R	1617	C201H	1617	C208(2S)	2016	C216R	2030	C222OR	2030
C186B	2016	C190Y	2030	C195X	1617	C201J	1617	C208A	2016	C216X	2030	C222R	2030
C186C	2016	C191(2S)	1617	C195Y	1617	C201K	1617	C208B	2016	C216Y	2030	C222X	2030

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C222Y	2030	C234R	2030	C240L	2041	C249L	2030	C269C	2016	C282GN	1617	C295	2009
C225(2S)	2030	C234X	2030	C240M	2041	C249M	2030	C269D	2016	C282H(2S)	1617	C296(2S)	2020
C225A	2030	C234Y	2030	C240OR	2041	C249OR	2030	C269E	2016	C282J	1617	C297	2017
C225B	2030	C236(2S)	2030	C240R	2041	C249R	2030	C269F	2016	C282K	1617	C300(2S)	1617
C225C	2030	C236A	2030	C240X	2041	C249X	2030	C269G	2016	C282L	1617	C300A	1617
C225D	2030	C236B	2030	C240Y	2041	C249Y	2030	C269GN	2016	C282M(TRANS)	1617	C300B	1617
C225E	2030	C236C	2030	C241(2S)	2041	C250(2S)	1617	C269H	2016	C282OR	1617	C300C	1617
C225F	2030	C236D	2030	C241A	2041	C250A	1617	C269J	2016	C282R	1617	C300D	1617
C225G	2030	C236E	2030	C241B	2041	C250B	1617	C269K	2016	C282X	1617	C300E	1617
C225GN	2030	C236F	2030	C241C	2041	C250C	1617	C269L	2016	C282Y	1617	C300F	1617
C225H	2030	C236G	2030	C241D	2041	C250D	1617	C269M	2016	C283A	1617	C300G	1617
C225J	2030	C236GN	2030	C241E	2041	C250E	1617	C269OR	2016	C283B	1617	C300GN	1617
C225L	2030	C236H	2030	C241F	2041	C250F	1617	C269R	2016	C283C	1617	C300H	1617
C225M	2030	C236J	2030	C241G	2041	C250G	1617	C269X	2016	C284(2S)	1617	C300J	1617
C225OR	2030	C236K	2030	C241GN	2041	C250GN	1617	C269Y	2016	C284A	1617	C300K	1617
C225R	2030	C236L	2030	C241H	2041	C250H	1617	C271(2S)	2016	C284B	1617	C300L	1617
C225X	2030	C236M	2030	C241K	2041	C250J	1617	C271A	2016	C284C	1617	C300M	1617
C225Y	2030	C236OR	2030	C241L	2041	C250K	1617	C271B	2016	C284D	1617	C300OR	1617
C226(2S)	2030	C236R	2030	C241M	2041	C250L	1617	C271C	2016	C284E	1617	C300R	1617
C226A	2030	C236X	2030	C241OR	2041	C250M	1617	C271D	2016	C284F	1617	C300X	1617
C226B	2030	C236Y	2030	C241R	2041	C250OR	1617	C271E	2016	C284G	1617	C300Y	1617
C226C	2030	C237(2S)	1617	C241X	2041	C250R	1617	C271F	2016	C284GN	1617	C301	1617
C226D	2030	C237A	1617	C241Y	2041	C250X	1617	C271G	2016	C284H(2S)	1617	C301(2S)	1617
C226E	2030	C237B	1617	C242(2S)	2041	C250Y	1617	C271GN	2016	C284J	1617	C301A(2S)	1617
C226F	2030	C237C	1617	C242A	2041	C254(2S)	2030	C271H	2016	C284K	1617	C301B	1617
C226G	2030	C237D	1617	C242B	2041	C255	2030	C271J	2016	C284L	1617	C301C	1617
C226GN	2030	C237E	1617	C242C	2041	C256	2030	C271K	2016	C284M	1617	C301D	1617
C226H	2030	C237F	1617	C242D	2041	C263(2S)	2016	C271L	2016	C284OR	1617	C301E	1617
C226J	2030	C237G	1617	C242E	2041	C263A	2016	C271M	2016	C284R	1617	C301F	1617
C226K	2030	C237GN	1617	C242F	2041	C263B	2016	C271OR	2016	C284X	1617	C301G	1617
C226L	2030	C237H	1617	C242G	2041	C263C	2016	C271R	2016	C284Y	1617	C301GN	1617
C226M	2030	C237J	1617	C242GN	2041	C263D	2016	C271X	2016	C286	2016	C301H	1617
C226OR	2030	C237K	1617	C242H	2041	C263E	2016	C271Y	2016	C286A(TRANS)	2016	C301J	1617
C226R	2030	C237L	1617	C242J	2041	C263F	2016	C272(2S)	2016	C286B	2016	C301K	1617
C226X	2030	C237M	1617	C242K	2041	C263G	2016	C272A	2016	C286B(TRANS)	2016	C301L	1617
C226Y	2030	C237OR	1617	C242L	2041	C263GN	2016	C272B	2016	C286C(TRANS)	2016	C301M	1617
C227(2S)	2030	C237R	1617	C242M	2041	C263H	2016	C272C	2016	C286D(TRANS)	2016	C301OR	1617
C227A	2030	C237X	1617	C242OR	2041	C263J	2016	C272D	2016	C286E	2016	C301R	1617
C227B	2030	C237Y	1617	C242R	2041	C263K	2016	C272E	2016	C286E(TRANS)	2016	C301X	1617
C227C	2030	C238(2S)	1617	C242X	2041	C263L	2016	C272F	2016	C286F	2016	C301Y	1617
C227D	2030	C238A	1617	C242Y	2041	C263M	2016	C272G	2016	C286G	2016	C302(2S)	1617
C227E	2030	C238B	1617	C243(2S)	2041	C263OR	2016	C272GN	2016	C286GN	2016	C302A	1617
C227F	2030	C238C	1617	C247(2S)	2030	C263R	2016	C272H	2016	C286H	2016	C302B	1617
C227G	2030	C238D	1617	C247A	2030	C263X	2016	C272J	2016	C286J	2016	C302C	1617
C227GN	2030	C238E	1617	C247B	2030	C263Y	2016	C272K	2016	C286K	2016	C302D	1617
C227H	2030	C238F	1617	C247C	2030	C264	2009	C272L	2016	C286L	2016	C302E	1617
C227J	2030	C238G	1617	C247D	2030	C265	2009	C272M	2016	C286M(TRANS)	2016	C302F	1617
C227K	2030	C238GN	1617	C247E	2030	C267(2S)	1617	C272OR	2016	C286OR	2016	C302G	1617
C227L	2030	C238H	1617	C247F	2030	C267A(2S)	1617	C272R	2016	C286R	2016	C302GN	1617
C227M	2030	C238J	1617	C247G	2030	C267B	1617	C272X	2016	C286X	2016	C302H	1617
C227OR	2030	C238K	1617	C247GN	2030	C267C	1617	C272Y	2016	C286Y	2016	C302J	1617
C227R	2030	C238L	1617	C247H	2030	C267D	1617	C280	2016	C289(2S)	2016	C302K	1617
C227X	2030	C238M	1617	C247J	2030	C267E	1617	C280AO	2009	C289A	2016	C302L	1617
C227Y	2030	C238OR	1617	C247L	2030	C267F	1617	C281(2S)	2009	C289B	2016	C302M	1617
C228(2S)	2030	C238R	1617	C247M	2030	C267G	1617	C281-OR	2009	C289C	2016	C302OR	1617
C228A(TRANS)	2030	C238X	1617	C247OR	2030	C267GN	1617	C281A(2S)	2009	C289D	2016	C302R	1617
C228B(TRANS)	2030	C238Y	1617	C247R	2030	C267H	1617	C281B(2S)	2009	C289E	2016	C302X	1617
C228C(TRANS)	2030	C239(2S)	1617	C247X	2030	C267J	1617	C281BL	2009	C289F	2016	C302Y	1617
C228D(TRANS)	2030	C239A	1617	C247Y	2030	C267K	1617	C281C(2S)	2009	C289G	2016	C306(2S)	2030
C228E(TRANS)	2030	C239B	1617	C248(2S)	1617	C267L	1617	C281C-EP(2S)	2009	C289GN	2016	C306A	2030
C228F(TRANS)	2030	C239C	1617	C248A	1617	C267M	1617	C281D(2S)	2009	C289H	2016	C306B	2030
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C228GN	2030	C239E	1617	C248C	1617	C267R	1617	C281EP(2S)	2009	C289K	2016	C306D	2030
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C228K	2030	C239GN	1617	C248F	1617	C268(2S)	2030	C281GN	2009	C289OR	2016	C306G	2030
C228L	2030	C239H	1617	C248G	1617	C268-OR	2030	C281H(2S)	2009	C289R	2016	C306GN	2030
C228M(TRANS)	2030	C239J	1617	C248J	1617	C268A(2S)	2030	C281HB	1617	C289X	2016	C306H	2030
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C234E(TRANS)	2030	C240B	2041	C249B	2030	C268K	2030	C282A	1617	C291G(TRANS)	2030	C307-OR	2030
C234F(TRANS)	2030	C240C	2041	C249C	2030	C268L	2030	C282A(TRANS)	1617	C291GN	2030	C307A	2030
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C368V(2S)	2016
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C368Y	2016
C369(2S)	2016
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C369-V	2016
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C369B	2016
C369BL(2S)	2016
C369C	2016
C369D	2016
C369E	2016
C369F	2016
C369G(2S)	2016
C369G-BL(2S)	2016
C369GBL(2S)	2016
C369G-GR(2S)	2016
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C369GR(2S)	2016
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C371O	2009
C371OR	2009
C371R(2S)	2009
C371R-1	2009
C371RED-G	2009
C371T	2009
C371X	2009
C371Y	2009
C372	2009
C372(2S)	2009
C372-0(2S)	2009
C372-1(2S)	2009
C372-2(2S)	2009
C372-O(2S)	2009
C372-OR	2009
C372-ORG	2009
C372-Y(2S)	2009
C372A	2009
C372AB	2009
C372B	2009
C372C	2009
C372D	2009
C372E	2009
C372F	2009
C372G	2009
C372GN	2009
C372G-O	2009
C372G-Y	2009
C372J	2009
C372K	2009
C372L	2009
C372M	2009
C372O	2009
C372OR	2009
C372R	2009
C372X	2009
C372Y(2S)	2009
C372Y1	2009
C372YEL	2009
C372YEL-G	2009
C372Z	2009
C373(2S)	2009
C373-0	2009
C373-14	2009
C373-G	2009
C373-O	2009
C373-OR	2009
C373A	2009
C373AB	2009
C373B	2009
C373C	2009
C373D	2009
C373E	2009
C373F	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C373G	2009	C377BRN	2009	C380D(TRANS)	2009	C382W	2009	C387AG	2016	C391Y	2009	C398G	2009
C373GN	2009	C377C	2009	C380D-Y	2009	C382X	2009	C387B	2016	C393	2009	C398GN	2009
C373GR(2S)	2009	C377D	2009	C380DY	2009	C382Y	2009	C387C	2016	C394(2S)	2009	C398H	2009
C373H	2009	C377E(TRANS)	2009	C380E(TRANS)	2009	C383(2S)	2009	C387D	2016	C394-0(2S)	2009	C398J	2009
C373J	2009	C377F	2009	C380E-Y	2009	C383-OR	2009	C387E(TRANS)	2016	C394-GR	2009	C398K	2009
C373K	2009	C377G	2009	C380EY	2009	C383A	2009	C387F	2016	C394-GRN	2009	C398L	2009
C373L	2009	C377GN	2009	C380F	2009	C383B	2009	C387FA3	2016	C394-O(2S)	2009	C398M(TRANS)	2009
C373M	2009	C377H	2009	C380F-Y	2009	C383C	2009	C387G(2S)	2016	C394-OR	2009	C398OR	2009
C373OR	2009	C377J	2009	C380FY	2009	C383D	2009	C387GN	2016	C394-ORG	2009	C398R	2009
C373R	2009	C377K	2009	C380G	2009	C383E	2009	C387H	2016	C394-R	2009	C398X	2009
C373W(2S)	2009	C377L	2009	C380GN	2009	C383F	2009	C387J	2016	C394-RED	2009	C398Y	2009
C373X	2009	C377M(TRANS)	2009	C380H	2009	C383G(2S)	2009	C387K	2016	C394-Y	2009	C399(2S)	2009
C373Y	2009	C377O	2009	C380J	2009	C383GN	2009	C387L	2016	C394-YEL	2009	C399A	2009
C374(2S)	2016	C377OR	2009	C380K	2009	C383H	2009	C387M(TRANS)	2016	C394A(TRANS)	2009	C399B	2009
C374-BL(2S)	2016	C377R	2009	C380L	2009	C383J	2009	C387OR	2016	C394AP	2009	C399C	2009
C374-OR	2016	C377RED	2009	C380M(TRANS)	2009	C383K	2009	C387R	2016	C394B(TRANS)	2009	C399D	2009
C374-V(2S)	2016	C377X	2009	C380O	2009	C383L	2009	C387X	2016	C394C(TRANS)	2009	C399E	2009
C374A	2016	C377Y	2009	C380OR	2009	C383M	2009	C387Y	2016	C394D(TRANS)	2009	C399F	2009
C374B	2016	C378(2S)	2009	C380R(2S)	2009	C383OR	2009	C388(2S)	2009	C394E(TRANS)	2009	C399FA1	2009
C374BL	2016	C378-O	2009	C380RED	2009	C383R	2009	C388-O	2009	C394F	2009	C399G	2009
C374BLK	2016	C378-ORG	2009	C380T(TRANS)	2009	C383T(2S)	2009	C388-OR	2009	C394G	2009	C399GN	2009
C374C	2016	C378-R	2009	C380V	2009	C383TM	2009	C388A(2S)	2009	C394GN	2009	C399H	2009
C374D	2016	C378-RED	2009	C380X	2009	C383W(2S)	2009	C388A(JAPAN)	2009	C394GR(2S)	2009	C399J	2009
C374E	2016	C378-Y	2009	C380Y(2S)	2009	C383X	2009	C388A(KOREA)	2009	C394GRN	2009	C399K	2009
C374F	2016	C378-YEL	2009	C380YEL	2009	C383Y(2S)	2009	C388A-TM	2009	C394H	2009	C399L	2009
C374G	2016	C378A	2009	C381(2S)	2016	C384(2S)	2016	C388ATM	2009	C394J	2009	C399M	2009
C374GN	2016	C378B	2009	C381-0(2S)	2016	C384(O)	2016	C388ATMFA	2009	C394K	2009	C399OR	2009
C374H	2016	C378C	2009	C381-BN	2016	C384-0	2016	C388B	2009	C394L	2009	C399R	2009
C374J	2016	C378D	2009	C381-BRN	2016	C384A(TRANS)	2016	C388C	2009	C394M(TRANS)	2009	C399X	2009
C374K	2016	C378E(TRANS)	2009	C381-O(2S)	2016	C384B(TRANS)	2016	C388D	2009	C394O	2009	C399Y	2009
C374L	2016	C378F	2009	C381-OR	2016	C384C(TRANS)	2016	C388E(TRANS)	2009	C394OR	2009	C400	1617
C374M	2016	C378G	2009	C381-ORG	2016	C384D(TRANS)	2016	C388F	2009	C394R(2S)	2009	C400(2S)	1617
C374OR	2016	C378GN	2009	C381-R(2S)	2016	C384E(TRANS)	2016	C388FA	2009	C394RED	2009	C400-0(2S)	1617
C374R	2016	C378H	2009	C381-RED	2016	C384F	2016	C388G	2009	C394W(2S)	2009	C400-GR(2S)	1617
C374V	2016	C378J	2009	C381A	2016	C384G	2016	C388GN	2009	C394X	2009	C400-O	1617
C374X	2016	C378K	2009	C381B	2016	C384GN	2016	C388H	2009	C394Y(2S)	2009	C400-R(2S)	1617
C374Y	2016	C378L	2009	C381BN(2S)	2016	C384H	2016	C388J	2009	C394YEL	2009	C400-Y(2S)	1617
C375(2S)	2016	C378M(TRANS)	2009	C381BN-1	2016	C384J	2016	C388K	2009	C395(2S)	1617	C400A	1617
C375-0(2S)	2016	C378O	2009	C381C	2016	C384K	2016	C388L	2009	C395A(TRANS)	1617	C400B	1617
C375-O(2S)	2016	C378OR	2009	C381D	2016	C384L	2016	C388M(TRANS)	2009	C395A-O	1617	C400C	1617
C375-Y(2S)	2016	C378R	2009	C381E	2016	C384M(TRANS)	2016	C388OR	2009	C395A-ORG	1617	C400D	1617
C375A	2016	C378X	2009	C381F	2016	C384OR	2016	C388R	2009	C395A-R	1617	C400E	1617
C375B	2016	C378Y	2009	C381G	2016	C384R	2016	C388TM	2009	C395A-RED	1617	C400F	1617
C375C	2016	C379(2S)	2009	C381GN	2016	C384X	2016	C388X	2009	C395A-Y	1617	C400G	1617
C375D	2016	C379A	2009	C381H	2016	C384Y(2S)	2016	C388Y	2009	C395A-YEL	1617	C400GN	1617
C375E	2016	C379B	2009	C381J	2016	C385	2016	C389(2S)	2016	C395B(TRANS)	1617	C400H	1617
C375F	2016	C379C	2009	C381K	2016	C385A(TRANS)	2016	C389-O	2016	C395C(TRANS)	1617	C400J	1617
C375G	2016	C379D	2009	C381L	2016	C385B(TRANS)	2016	C389-OR	2016	C395D(TRANS)	1617	C400K	1617
C375GN	2016	C379E	2009	C381M	2016	C385C(TRANS)	2016	C389A	2016	C395E(TRANS)	1617	C400L	1617
C375H	2016	C379F	2009	C381O	2016	C385D(TRANS)	2016	C389AFP	2016	C395F	1617	C400M	1617
C375J	2016	C379G	2009	C381OR	2016	C385E(TRANS)	2016	C389B	2016	C395G	1617	C400OR	1617
C375K	2016	C379GN	2009	C381R(2S)	2016	C385F	2016	C389BLB-O	2016	C395GN	1617	C400R	1617
C375L	2016	C379H	2009	C381RED	2016	C385G	2016	C389C	2016	C395H	1617	C400X	1617
C375M	2016	C379J	2009	C381RL	2016	C385GN	2016	C389D	2016	C395J	1617	C400Y	1617
C375OR	2016	C379K	2009	C381X	2016	C385H	2016	C389E	2016	C395K	1617	C401	2009
C375R	2016	C379L	2009	C381Y	2016	C385J	2016	C389F	2016	C395L	1617	C401(2S)	2009
C375X	2016	C379M	2009	C382(2S)	2009	C385K	2016	C389G	2016	C395M(TRANS)	1617	C401A	2009
C376(2S)	2009	C379OR	2009	C382-G	2009	C385L	2016	C389GN	2016	C395OR	1617	C401B	2009
C376A	2009	C379R	2009	C382-GR(2S)	2009	C385M(TRANS)	2016	C389H	2016	C395R(2S)	1617	C401C	2009
C376B	2009	C379X	2009	C382-GY	2009	C385OR	2016	C389J	2016	C395X	1617	C401D	2009
C376C	2009	C379Y	2009	C382-OR	2009	C385R	2016	C389K	2016	C395Y	1617	C401E	2009
C376D	2009	C380	2009	C382-R	2009	C385X	2016	C389L	2016	C397	2016	C401F	2009
C376E(TRANS)	2009	C380-0(2S)	2009	C382-V	2009	C385Y	2016	C389LP	2016	C397A	2016	C401G	2009
C376F	2009	C380-BRN	2009	C382A	2009	C386	2016	C389M	2016	C397B	2016	C401GN	2009
C376G	2009	C380-O(2S)	2009	C382B	2009	C386-O	2016	C389O	2016	C397C	2016	C401H	2009
C376GN	2009	C380-OR	2009	C382BK(2S)	2009	C386A	2016	C389OR	2016	C397D	2016	C401J	2009
C376H	2009	C380-ORG	2009	C382BK1	2009	C386AO	2016	C389P	2016	C397E(TRANS)	2016	C401K	2009
C376J	2009	C380-R	2009	C382BK2	2009	C386B	2016	C389R(2S)	2016	C397F	2016	C401L	2009
C376K	2009	C380-RED	2009	C382BL(2S)	2009	C386C	2016	C389X	2016	C397G	2016	C401M	2009
C376L	2009	C380-Y	2009	C382BN(2S)	2009	C386D	2016	C389Y	2016	C397GN	2016	C401OR	2009
C376M(TRANS)	2009	C380-YEL	2009	C382BR(2S)	2009	C386E	2016	C391	2009	C397H	2016	C401R	2009
C376OR	2009	C380A(TRANS)	2009	C382C	2009	C386F	2016	C391A	2009	C397J	2016	C401X	2009
C376R	2009	C380A-0	2009	C382D	2009	C386G	2016	C391B	2009	C397K	2016	C401Y	2009
C376X	2009	C380A0	2009	C382E	2009	C386GN	2016	C391C	2009	C397L	2016	C402	2009
C376Y	2009	C380A-O	2009	C382F	2009	C386H	2016	C391D	2009	C397M(TRANS)	2016	C402(2S)	2009
C377(2S)	2009	C380AO(2S)	2009	C382G(2S)	2009	C386J	2016	C391E	2009	C397OR	2016	C402A(2S)	2009
C377-0	2009	C380AR	2009	C382GN	2009	C386K	2016	C391F	2009	C397R	2016	C402B	2009
C377-BN	2009	C380A-R(2S)	2009	C382GR	2009	C386L	2016	C391G	2009	C397X	2016	C402C	2009
C377-BRN	2009	C380ATV(2S)	2009	C382GY	2009	C386M	2016	C391GN	2009	C397Y	2016	C402D	2009
C377-O	2009	C380A-Y	2009	C382H	2009	C386OR	2016	C391H	2009	C398	2009	C402E	2009
C377-OR	2009	C380AY(2S)	2009	C382J	2009	C386R	2016	C391J	2009	C398A	2009	C402F	2009
C377-ORG	2009	C380B(TRANS)	2009	C382K	2009	C386X	2016	C391K	2009	C398B	2009	C402G	2009
C377-R	2009	C380B-Y	2009	C382L	2009	C386Y	2016	C391L	2009	C398C	2009	C402GN	2009
C377-RED	2009	C380BY	2009	C382M	2009	C387(2S)	2016	C391M	2009	C398D	2009	C402H	2009
C377A	2009	C380C(TRANS)	2009	C382OR	2009	C387-G	2016	C391OR	2009	C398E(TRANS)	2009	C402J	2009
C377B	2009	C380C-Y	2009	C382R(2S)	2009	C387-OR	2016	C391R	2009	C398F	2009	C402K	2009
C377BN	2009	C380CY	2009	C382V(2S)	2009	C387A(2S)	2016	C391X	2009	C398FA1	2009	C402L	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276	DEVICE	276-
C402M	2009	C423E(2S)	1617	C455-OR	2009	C459L	2009	C472X	2058	C497-OR	2030	C501A(TRANS)	2030
C402OR	2009	C423F(2S)	1617	C455A	2009	C459M	2009	C472Y(2S)	2058	C497-ORG	2030	C501B(TRANS)	2030
C402R	2009	C423G	1617	C455B	2009	C459OR	2009	C473	1617	C497-R(2S)	2030	C501C(TRANS)	2030
C402X	2009	C423GN	1617	C455C	2009	C459R	2009	C473AC	1617	C497-RED	2030	C501D(TRANS)	2030
C402Y	2009	C423H	1617	C455D	2009	C459X	2009	C474	2009	C497-Y(2S)	2030	C501E(TRANS)	2030
C403(2S)	2009	C423J	1617	C455E	2009	C459Y	2009	C477(2S)	2016	C497-YEL	2030	C501F	2030
C403-OR	2009	C423K	1617	C455F	2009	C460	2009	C477A	2016	C497A	2030	C501G	2030
C403A(2S)	2009	C423L	1617	C455G	2009	C460(JAPAN)	2009	C477B	2016	C497B	2030	C501GN	2030
C403AL	2009	C423M	1617	C455GN	2009	C460-5	2009	C477C	2016	C497C	2030	C501H	2030
C403B	2009	C423OR	1617	C455H	2009	C460-B	2009	C477D	2016	C497D	2030	C501J	2030
C403C(2S)	2009	C423R	1617	C455J	2009	C460-C	2009	C477E(TRANS)	2016	C497E	2030	C501K	2030
C403CG	2009	C423X	1617	C455K	2009	C460-OR	2009	C477F	2016	C497F	2030	C501L(2S)	2030
C403D	2009	C423Y	1617	C455L	2009	C460A(2S)	2009	C477G	2016	C497G	2030	C501M(TRANS)	2030
C403E	2009	C424	1617	C455M	2009	C460B	2009	C477GN	2016	C497GN	2030	C501O	2030
C403F	2009	C424(2S)	1617	C455OR	2009	C460BL	2009	C477H	2016	C497H	2030	C501OR	2030
C403G	2009	C424D(2S)	1617	C455R	2009	C460C	2009	C477J	2016	C497J	2030	C501R	2030
C403GN	2009	C425	2030	C455X	2009	C460D(2S)	2009	C477K	2016	C497K	2030	C501X	2030
C403H	2009	C425(2S)	1617	C455Y	2009	C460E	2009	C477L	2016	C497L	2030	C501Y	2030
C403J	2009	C425A	1617	C457	2009	C460F	2009	C477M(TRANS)	2016	C497M	2030	C503(2S)	2030
C403K	2009	C425B(2S)	1617	C458	2009	C460G(2S)	2009	C477OR	2016	C497OR	2030	C503-GR	2030
C403L	2009	C425C(2S)	1617	C458(JAPAN)	2009	C460GR(2S)	2009	C477R	2016	C497R	2030	C503-O(2S)	2030
C403M	2009	C425D(2S)	1617	C458-4	2009	C460GN	2009	C477X	2016	C497RED	2030	C503-Y(2S)	2030
C403OR	2009	C425E(2S)	1617	C458-5	2009	C460H(2S)	2009	C477Y	2016	C497X	2030	C503A	2030
C403R	2009	C425F(2S)	1617	C458-B	2009	C460J	2009	C478(2S)	1617	C497Y	2030	C503B	2030
C403X	2009	C425G	1617	C458-C	2009	C460K(2S)	2009	C478-4(2S)	1617	C498(2S)	2030	C503C	2030
C403Y	2009	C425GN	1617	C458-D	2009	C460L(2S)	2009	C478-O	1617	C498-0	2030	C503D	2030
C404(2S)	2009	C425H	1617	C458-GR	2009	C460M	2009	C478A	1617	C498-O(2S)	2030	C503E	2030
C404A	2009	C425K	1617	C458-O	2009	C460OR	2009	C478B	1617	C498-OR	2030	C503F	2030
C404B	2009	C425L	1617	C458-OR	2009	C460R	2009	C478C	1617	C498-ORG	2030	C503G	2030
C404C	2009	C425M	1617	C458-Y	2009	C460X	2009	C478D(2S)	1617	C498-R(2S)	2030	C503GN	2030
C404D	2009	C425OR	1617	C458A(2S)	2009	C460Y	2009	C478E(TRANS)	1617	C498-RED	2030	C503GR(2S)	2030
C404E	2009	C425R	1617	C458AD(2S)	2009	C461	2009	C478F	1617	C498-Y(2S)	2030	C503H	2030
C404F	2009	C425X	1617	C458AK	2009	C461-8F	2009	C478G	1617	C498-YEL	2030	C503J	2030
C404G	2009	C425Y	1617	C458B	2009	C461-A	2009	C478GN	1617	C498A	2030	C503K	2030
C404GN	2009	C426	2030	C458B(JAPAN)	2009	C461-B	2009	C478H	1617	C498B	2030	C503L	2030
C404H	2009	C426(2S)	2009	C458BC(2S)	2009	C461A	2009	C478J	1617	C498C	2030	C503M	2030
C404J	2009	C427	2009	C458BD	2009	C461AL	2009	C478K	1617	C498D	2030	C503OR	2030
C404K	2009	C428(2S)	2009	C458BL(2S)	2009	C461B	2009	C478L	1617	C498E	2030	C503R	2030
C404L	2009	C433	2009	C458BM	2009	C461BF	2009	C478M(TRANS)	1617	C498F	2030	C503X	2030
C404M	2009	C434	2020	C458C	2009	C461BK	2009	C478OR	1617	C498G	2030	C504(2S)	2030
C404OR	2009	C443(2S)	2030	C458C(JAPAN)	2009	C461BL	2009	C478R	1617	C498GN	2030	C504-GR	2030
C404R	2009	C443A	2030	C458CL	2009	C461C	2009	C478X	1617	C498H	2030	C504-O(2S)	2030
C404X	2009	C443B	2030	C458CLG(2S)	2009	C461E(2S)	2009	C478Y	1617	C498J	2030	C504-Y(2S)	2030
C404Y	2009	C443C	2030	C458CM(2S)	2009	C461EP	2009	C479(2S)	2030	C498K	2030	C504A	2030
C405(2S)	1617	C443D	2030	C458D(2S)	2009	C461F	2009	C479A	2030	C498L	2030	C504B	2030
C405A	1617	C443E	2030	C458E(TRANS)	2009	C461L(2S)	2009	C479B	2030	C498M	2030	C504C	2030
C405B	1617	C443F	2030	C458F	2009	C462	2009	C479C	2030	C498OR	2030	C504D	2030
C405C	1617	C443G	2030	C458G(2S)	2009	C463(2S)	2016	C479D	2030	C498R	2030	C504E	2030
C405D	1617	C443GN	2030	C458GN	2009	C463A	2016	C479E	2030	C498RED	2030	C504F	2030
C405E	1617	C443H	2030	C458H	2009	C463B	2016	C479F	2030	C498X	2030	C504G	2030
C405F	1617	C443J	2030	C458J	2009	C463C	2016	C479G	2030	C498Y	2030	C504GN	2030
C405G	1617	C443K	2030	C458K(2S)	2009	C463D	2016	C479GN	2030	C498YEL	2030	C504GR(2S)	2030
C405GN	1617	C443L	2030	C458KB(2S)	2009	C463E	2016	C479H	2030	C499(2S)	2009	C504H	2030
C405H	1617	C443M	2030	C458L(2S)	2009	C463F	2016	C479J	2030	C499-OR	2009	C504J	2030
C405J	1617	C443OR	2030	C458L6	2009	C463G	2016	C479K	2030	C499-R	2009	C504K	2030
C405K	1617	C443R	2030	C458LB(2S)	2009	C463GN	2016	C479L	2030	C499-RED	2009	C504L	2030
C405L	1617	C443X	2030	C458LC	2009	C463H(2S)	2016	C479M	2030	C499-RY(2S)	2009	C504M	2030
C405M	1617	C443Y	2030	C458LD	2009	C463J	2016	C479OR	2030	C499-Y	2009	C504OR	2030
C405OR	1617	C444	1617	C458LG	2009	C463K	2016	C479R	2030	C499-YEL	2009	C504R	2030
C405R	1617	C450	1617	C458LGA(2S)	2009	C463L	2016	C479X	2030	C499A	2009	C504X	2030
C405X	1617	C454	2009	C458LGB	2009	C463M	2016	C479Y	2030	C499B	2009	C509	2009
C405Y	1617	C454-3	2009	C458LGBM(2S)	2009	C463OR	2016	C492(2S)	2041	C499C	2009	C509(O)	2009
C406(2S)	1617	C454-5	2009	C458LGC	2009	C463R	2016	C494(2S)	2041	C499D	2009	C509-O	2009
C406A	1617	C454-C	2009	C458LGC-6	2009	C463X	2016	C494-BL(2S)	2041	C499E	2009	C509-O	2009
C406B	1617	C454-OR	2009	C458LGD	2009	C463Y	2016	C494-R(2S)	2041	C499F	2009	C509-Y	2009
C406C	1617	C454A(2S)	2009	C458LGO(2S)	2009	C467	2016	C494-Y(2S)	2041	C499FA1	2009	C509G(2S)	2009
C406D	1617	C454B	2009	C458LGR	2009	C468(2S)	1617	C494A	2041	C499G	2009	C509G-O	2009
C406E	1617	C454B-6	2009	C458LGS(2S)	2009	C468A(2S)	1617	C494B	2041	C499GN	2009	C509G-Y	2009
C406F	1617	C454BL	2009	C458M(TRANS)	2009	C468B	1617	C494BL(2S)	2041	C499H	2009	C509O	2009
C406G	1617	C454C	2009	C458OR	2009	C468H	1617	C494C	2041	C499J	2009	C509Y(2S)	2009
C406GN	1617	C454C(JAPAN)	2009	C458P	2009	C468LGR	1617	C494D	2041	C499K	2009	C511A	1067
C406H	1617	C454D(2S)	2009	C458R	2009	C472	2058	C494E	2041	C499L	2009	C511B	1067
C406J	1617	C454E	2009	C458RG5(2S)	2009	C472A	2058	C494F	2041	C499M	2009	C511C	1020
C406K	1617	C454F	2009	C458X	2009	C472B	2058	C494G	2041	C499OR	2009	C511F	1067
C406L	1617	C454G	2009	C458Y	2009	C472C	2058	C494GN	2041	C499R(2S)	2009	C511G	1067
C406M	1617	C454GN	2009	C459(2S)	2009	C472D	2058	C494H	2041	C499RED	2009	C511H	1020
C406OR	1617	C454H	2009	C459A	2009	C472E	2058	C494J	2041	C499RY	2009	C511U	1067
C406R	1617	C454J	2009	C459B(2S)	2009	C472F	2058	C494K	2041	C499X	2009	C516(2S)	2030
C406X	1617	C454K	2009	C459C	2009	C472G	2058	C494L	2041	C499Y(2S)	2009	C516A	2030
C406Y	1617	C454L(2S)	2009	C459D(2S)	2009	C472GN	2058	C494M	2041	C499YEL	2009	C516B	2030
C420	2030	C454LA(2S)	2009	C459E	2009	C472H	2058	C494OR	2041	C501	2030	C516C	2030
C423(2S)	1617	C454M	2009	C459F	2009	C472J	2058	C494R	2041	C501-O	2030	C516D	2030
C423-O	1617	C454OR	2009	C459G	2009	C472K	2058	C494X	2041	C501-ORG	2030	C516E	2030
C423A	1617	C454R	2009	C459GN	2009	C472L	2058	C494Y	2041	C501-R	2030	C516F	2030
C423B(2S)	1617	C454X	2009	C459H	2009	C472M	2058	C497(2S)	2030	C501-RED	2030	C516G	2030
C423C(2S)	1617	C454Y	2009	C459J	2009	C472OR	2058	C497-0	2030	C501-Y	2030	C516GN	2030
C423D(2S)	1617	C455(2S)	2009	C459K	2009	C472R	2058	C497-O(2S)	2030	C501-YEL	2030	C516H	2030

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C516J	2030
C516K	2030
C516L	2030
C516M	2030
C516OR	2030
C516R	2030
C516X	2030
C516Y	2030
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C529B	2009
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C529E	2009
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C529G	2009
C529GN	2009
C529H	2009
C529J	2009
C529K	2009
C529L	2009
C529M	2009
C529OR	2009
C529R	2009
C529X	2009
C529Y	2009
C530	2009
C531	2009
C532	2009
C532O	2009
C533	2009
C534	2009
C535	2016
C535-OR	2016
C535A	2016
C535ABC	2016
C535AL	2016
C535B	2016
C535B(JAPAN)	2016
C535C	2016
C535D	2016
C535E	2016
C535F	2016
C535G(2S)	2016
C535GN	2016
C535H	2016
C535J	2016
C535K	2016
C535L	2016
C535M	2016
C535OR	2016
C535R	2016
C535X	2016
C535Y	2016
C536	2009
C536(JAPAN)	2009
C536-D	2009
C536-E	2009
C536-F	2009
C536-G	2009
C536-OR	2009
C536A(2S)	2009
C536AF	2009
C536AG(2S)	2009
C536B(2S)	2009
C536C(2S)	2009
C536D(2S)	2009
C536DK(2S)	2009
C536E	2009
C536E(JAPAN)	2009
C536ED(2S)	2009
C536EH(2S)	2009
C536EJ(2S)	2009
C536EN(2S)	2009
C536EP	2009
C536ER(2S)	2009
C536ET(2S)	2009
C536EZ(2S)	2009
C536F	2009
C536F(JAPAN)	2009
C536F1(2S)	2009
C536F2(2S)	2009
C536FC	2009
C536FC(2S)	2009
C536FP(2S)	2009

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C536FS(2S)	2009
C536FS6(2S)	2009
C536FZ(2S)	2009
C536G(2S)	2009
C536G(JAPAN)	2009
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C536G1	2009
C536G2	2009
C536GF(2S)	2009
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C536GK(2S)	2009
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C536GM	2009
C536GN	2009
C536GP	2009
C536GT(2S)	2009
C536GV(2S)	2009
C536GY(2S)	2009
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C536H(2S)	2009
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C536K	2009
C536K(JAPAN)	2009
C536KE(JAPAN)	2009
C536KF(JAPAN)	2009
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C536L	2009
C536M	2009
C536NP	2009
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C536R	2009
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C536W(2S)	2009
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C536XL	2009
C536Y	2009
C536YF	2009
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C537-C7	2009
C537-EV	2009
C537A	2016
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C537B	2009
C537BK	2009
C537C	2009
C537C7	2009
C537D(2S)	2009
C537D1	2009
C537D2(2S)	2009
C537E(2S)	2009
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C537EH(2S)	2009
C537EJ(2S)	2009
C537EV	2009
C537F	2009
C537F1(2S)	2009
C537F2(2S)	2009
C537FC(2S)	2009
C537F-C7	2009
C537FC7	2009
C537FJ	2009
C537FK	2009
C537FV(2S)	2009
C537G(2S)	2009
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C537G2	2009
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C537GI(2S)	2009
C537H(2S)	2009
C537HT(2S)	2009
C537WF	2009
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C538-Q	1617
C538A(2S)	1617
C538A-P	1617
C538AQ(2S)	1617
C538A-R	1617
C538AR	1617
C538AS	1617
C538K	1617
C538P(2S)	1617
C538Q(2S)	1617
C538R	1617
C538S(2S)	1617

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C539R(2S)	1617
C539S(2S)	1617
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C543B	2020
C543C	2020
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C543H	2020
C543J	2020
C543K	2020
C543L	2020
C543M	2020
C543OR	2020
C543R	2020
C543X	2020
C543Y	2020
C544(2S)	2016
C544A	2016
C544AG	2016
C544B	2016
C544C(2S)	2016
C544D(2S)	2016
C544E(2S)	2016
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C544GN	2016
C544H	2016
C544J	2016
C544K	2016
C544L	2016
C544M	2016
C544OR	2016
C544R	2016
C544X	2016
C544Y	2016
C545(2S)	2016
C545A(2S)	2016
C545B(2S)	2016
C545C(2S)	2016
C545D(2S)	2016
C545E(2S)	2016
C546	2016
C546K	2016
C547C(EUROPE)	2009
C548	2009
C548(EUROPE)	2009
C548A(EUROPE)	2016
C548C(EUROPE)	2009
C549C(EUROPE)	2016
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C550A	2017
C551	2020
C552	2020
C553	2020
C554	2020
C556	2058
C557(EUROPE)	2023
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C558(EUROPE)	2023
C558B(EUROPE)	2023
C559B(EUROPE)	2023
C560(2S)	2030
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C560R	2030
C560X	2030

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C560Y	2030
C561(2S)	2016
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C561C	2016
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C561L	2016
C561M	2016
C561OR	2016
C561R	2016
C561X	2016
C561Y	2016
C562(2S)	2016
C562(O)	2016
C562-OR	2016
C562A	2016
C562B	2016
C562C	2016
C562D	2016
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C562O	2016
C562OR	2016
C562R	2016
C562X	2016
C562Y(2S)	2016
C563	2016
C563-F	2016
C563-G	2016
C563-OR	2016
C563A(2S)	2016
C563B	2016
C563C	2016
C563D	2016
C563E	2016
C563F	2016
C563G	2016
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C563J	2016
C563K	2016
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C563OR	2016
C563R	2016
C563X	2016
C563Y	2016
C564(2S)	1617
C564A(2S)	1617
C564AP	1617
C564B	1617
C564C	1617
C564D	1617
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C564Q(2S)	1617
C564QC	1617
C564R(2S)	1617
C564S(2S)	1617
C564T(2S)	1617
C564X	1617
C564Y	1617

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C576G	2009
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C580Y	2030
C581	2016
C585	2020
C586(2S)	2041
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C587A(2S)	1617
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C587C	1617
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C588(2S)	1617
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C590Y(2S)	2009
C592	2017
C593(2S)	1617
C594(2S)	1617
C594-O	1617
C594-R	1617
C594-Y	1617
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C594OR	1617
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C594Y	1617
C595(2S)	1617
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C595C	1617
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C595X	1617
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C596(2S)	1617
C596A	1617
C596B	1617
C596C	1617
C596D	1617
C596E	1617
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C596Y	1617
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C600	2020
C602	2016
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C610(2S)	2030
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C613	2016
C613(2S)	2016
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C613B	2016
C613C	2016
C613D	2016
C613E	2016
C613F	2016
C613G	2016
C613GN	2016
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C613J	2016
C613K	2016
C613L(TRANS)	2016
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C613OR	2016
C613R	2016

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C613Y	2016
C618	2016
C618A	2016
C619(2S)	2009
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C619B(2S)	2009
C619C(2S)	2009
C619D(2S)	2009
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C619G	2009
C619GN	2009
C619H	2009
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C619M	2009
C619OR	2009
C619R	2009
C619X	2009
C619Y	2009
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C620-E	2009
C620-OR	2009
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C620B	2009
C620C(2S)	2009
C620CD(2S)	2009
C620D(2S)	2009
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C620E(2S)	2009
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C620X	2009
C620Y	2009
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C621(2S)	2009
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C621B	2009
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C621D	2009
C621E	2009
C621F	2009
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C622(2S)	1617
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C622B	1617
C622C	1617
C622D	1617
C622E	1617
C622F	1617
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C622R	1617
C622X	1617
C622Y	1617
C623(2S)	1617
C624(2S)	1617
C626	1617

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C629(2S)	2058	C634AL	2009	C644PJ(2S)	2016	C650OR	2009	C662E	2016	C673C(JAPAN)	2016	C685R	2016
C629-31	2058	C634AXL	2009	C644Q(2S)	2016	C650R	2009	C662F	2016	C673C2(2S)	2016	C687(2S)	2041
C629-41	2058	C634B	2009	C644R	2016	C650X	2009	C662G	2016	C673D(2S)	2016	C687A	2041
C629A	2058	C634C	2009	C644S	2016	C650Y	2009	C662GN	2016	C674	2016	C687B	2041
C629B	2058	C634D	2009	C644S/494	2016	C653	2016	C662H	2016	C674(2S)	2016	C687C	2041
C629C	2058	C634E	2009	C644ST	2016	C655	2009	C662J	2016	C674(JAPAN)	2016	C687D	2041
C629D	2058	C634F	2009	C644T(2S)	2016	C655(2S)	1617	C662K	2016	C674-B	2016	C687E	2041
C629E	2058	C634G	2009	C644X	2016	C655A	1617	C662L	2016	C674-F	2016	C687F	2041
C629F	2058	C634GN	2009	C644Y	2016	C655B	1617	C662M	2016	C674B(2S)	2016	C687G	2041
C629G	2058	C634H	2009	C645(2S)	2016	C655C	1617	C662OR	2016	C674C(2S)	2016	C687GN	2041
C629GN	2058	C634J	2009	C645-OR	2016	C655D	1617	C662R	2016	C674CK	2016	C687H	2041
C629H	2058	C634K	2009	C645A(2S)	2016	C655E	1617	C662X	2016	C674CL	2016	C687J	2041
C629J	2058	C634L	2009	C645B(2S)	2016	C655F	1617	C662Y	2016	C674D(2S)	2016	C687K	2041
C629K	2058	C634M	2009	C645B-1	2016	C655G	1617	C663(2S)	2016	C674E(2S)	2016	C687L	2041
C629L	2058	C634OR	2009	C645C(2S)	2016	C655GN	1617	C663A	2009	C674F(2S)	2016	C687M	2041
C629M	2058	C634R	2009	C645D	2016	C655H	1617	C663B	2016	C674G(2S)	2016	C687OR	2041
C629OR	2058	C634SP	2009	C645E	2016	C655J	1617	C663C	2016	C678	2041	C687R	2041
C629R	2058	C634X	2009	C645F	2016	C655K	1617	C663D	2016	C682	2016	C687X	2041
C629X	2058	C634Y	2009	C645G(2S)	2016	C655L	1617	C663E	2016	C682(2S)	2016	C687Y	2041
C629Y	2058	C635	2009	C645GN	2016	C655M	1617	C663F	2016	C682-OR	2016	C688(2S)	2058
C631	2009	C635A(2S)	2009	C645GR	2016	C655OR	1617	C663G	2016	C682A	2016	C688-SP	2016
C631(2S)	2009	C636(2S)	2020	C645H	2016	C655R	1617	C663GN	2016	C682A(2S)	2016	C688A	2058
C631A(2S)	2009	C639	1617	C645J	2016	C655X	1617	C663H	2016	C682B(2S)	2016	C688B	2058
C631B	2009	C641	2009	C645K	2016	C655Y	1617	C663J	2016	C682C	2016	C688C	2058
C631C	2009	C641(2S)	2009	C645L	2016	C657(2S)	2016	C663K	2016	C682D	2016	C688D	2058
C631D	2009	C641A	2009	C645M	2016	C657A	2016	C663L	2016	C682E	2016	C688E	2058
C631E	2009	C641B(2S)	2009	C645N(2S)	2016	C657B	2016	C663M	2016	C682F	2016	C688F	2058
C631F	2009	C641C	2009	C645OR	2016	C657C	2016	C663OR	2016	C682G	2016	C688G	2058
C631G	2009	C641D	2009	C645R	2016	C657D	2016	C663R	2016	C682GN	2016	C688GN	2058
C631GN	2009	C641E	2009	C645V	2016	C657E	2016	C663X	2016	C682H	2016	C688H	2058
C631H	2009	C641F	2009	C645X	2016	C657F	2016	C663Y	2016	C682J	2016	C688J	2058
C631J	2009	C641G	2009	C645Y	2016	C657G	2016	C664	2041	C682K	2016	C688K	2058
C631K	2009	C641GN	2009	C647(2S)	2041	C657GN	2016	C664-OR	2041	C682L	2016	C688L	2058
C631L	2009	C641H	2009	C647Q(2S)	2041	C657H	2016	C664A	2041	C682M	2016	C688M	2058
C631M	2009	C641J	2009	C647R(2S)	2041	C657J	2016	C664B(2S)	2041	C682OR	2016	C688OR	2058
C631OR	2009	C641K	2009	C648(2S)	1617	C657K	2016	C664C(2S)	2041	C682R	2016	C688R	2058
C631R	2009	C641L	2009	C648A	1617	C657L	2016	C664D	2041	C682X	2016	C688X	2058
C631X	2009	C641M	2009	C648B	1617	C657M	2016	C664E	2041	C682Y	2016	C688Y	2058
C631Y	2009	C641OR	2009	C648C	1617	C657OR	2016	C664F	2041	C683	2016	C689(2S)	1617
C632	2009	C641R	2009	C648D	1617	C657R	2016	C664L	2041	C683(2S)	2016	C689A	1617
C632(1)	2009	C641X	2009	C648E(TRANS)	1617	C657X	2016	C664OR	2041	C683-0	2016	C689B	1617
C632(2S)	2009	C641Y	2009	C648F	1617	C657Y	2016	C664R	2041	C683-OR	2016	C689C	1617
C632-OR	2009	C642	2055	C648G	1617	C658(2S)	2016	C664Y	2041	C683A	2016	C689D	1617
C632A(2S)	2009	C642(2S)	2055	C648H(2S)	1617	C658A(2S)	2016	C666(2S)	2041	C683A(2S)	2016	C689E	1617
C632B	2009	C642A(2S)	2055	C648J	1617	C658B	2016	C666C	2041	C683B	2016	C689G	1617
C632C	2009	C643(2S)	2055	C648K	1617	C658C	2016	C667(2S)	2016	C683C	2016	C689GN	1617
C632D	2009	C643-OR	2055	C648L	1617	C658D	2016	C668(2S)	2016	C683D	2016	C689H(2S)	1617
C632E	2009	C643A(2S)	2055	C648M(TRANS)	1617	C658E	2016	C668-OR	2016	C683E	2016	C689J	1617
C632F	2009	C643B	2055	C648OR	1617	C658F	2016	C668-SP	2016	C683F	2016	C689K	1617
C632G	2009	C643C	2055	C648R	1617	C658G	2016	C668A(2S)	2016	C683G	2016	C689L	1617
C632GN	2009	C643D	2055	C648X	1617	C658GN	2016	C668B(2S)	2016	C683GN	2016	C689M	1617
C632H	2009	C643E	2055	C648Y	1617	C658H	2016	C668B1(2S)	2016	C683H	2016	C689OR	1617
C632J	2009	C643F	2055	C649(2S)	1617	C658J	2016	C668BC2(2S)	2016	C683J	2016	C689R	1617
C632K	2009	C643G	2055	C649A	1617	C658K	2016	C668C(2S)	2016	C683K	2016	C689X	1617
C632L	2009	C643GN	2055	C649B	1617	C658L	2016	C668C1(2S)	2016	C683L	2016	C689Y	1617
C632M	2009	C643H	2055	C649C	1617	C658M	2016	C668C2	2016	C683M	2016	C691	2017
C632OR	2009	C643J	2055	C649D	2016	C658OR	2016	C668CD(2S)	2016	C683OR	2016	C692	2017
C632R	2009	C643K	2055	C649E	1617	C658R	2016	C668D(2S)	2016	C683P	2016	C693	2016
C632X	2009	C643L	2055	C649F	1617	C658X	2016	C668D0(2S)	2016	C683Q	2016	C693-OR	2016
C632Y	2009	C643M	2055	C649G	1617	C658Y	2016	C668D1(2S)	2016	C683R	2016	C693A	2016
C633	2009	C643OR	2055	C649GN	1617	C659(2S)	2016	C668DE(2S)	2016	C683S	2016	C693B	2016
C633(2S)	2009	C643R	2055	C649H	1617	C659A	2016	C668DO(2S)	2016	C683V(2S)	2016	C693C	2016
C633-7(2S)	2009	C643X	2055	C649J	1617	C659B	2016	C668DV(2S)	2016	C683X	2016	C693D	2016
C633-OR	2009	C643Y	2055	C649K	1617	C659C	2016	C668DX(2S)	2016	C683Y	2016	C693E	2016
C633A(2S)	2009	C644	2016	C649L	1617	C659D	2016	C668DZ(2S)	2016	C684	2016	C693EB(2S)	2016
C633B	2009	C644(2S)	2016	C649M	1617	C659E	2016	C668E(2S)	2016	C684(2S)	2016	C693ET(2S)	2016
C633C	2009	C644-OR	2016	C649OR	1617	C659F	2016	C668E1(2S)	2016	C684-OR	2016	C693F(2S)	2016
C633D	2009	C644A	2016	C649R	1617	C659G	2016	C668E2(2S)	2016	C684A	2016	C693FC(2S)	2016
C633E	2009	C644B	2016	C649X	1617	C659GN	2016	C668EP(2S)	2016	C684A(2S)	2016	C693FL(2S)	2016
C633F	2009	C644C(2S)	2016	C649Y	1617	C659H	2016	C668EV(2S)	2016	C684B(2S)	2016	C693FP	2016
C633G(2S)	2009	C644D	2016	C650	1617	C659J	2016	C668EX(2S)	2016	C684BK(2S)	2016	C693FU(2S)	2016
C633GN	2009	C644E	2016	C650(2S)	2009	C659K	2016	C668F(2S)	2016	C684C	2016	C693G	2016
C633H(2S)	2009	C644F	2016	C650-OR	2009	C659L	2016	C668G	2016	C684D	2016	C693GL(2S)	2016
C633J	2009	C644F/494	2016	C650-Y	2009	C659M	2016	C668GN	2016	C684E	2016	C693GN	2016
C633K	2009	C644FH	2016	C650A	2009	C659OR	2016	C668H	2016	C684F(2S)	2016	C693GS(2S)	2016
C633L	2009	C644FHS	2016	C650B(2S)	2009	C659R	2016	C668K	2016	C684G	2016	C693GU(2S)	2016
C633M	2009	C644FR(2S)	2016	C650C	2009	C659X	2016	C668L	2016	C684GN	2016	C693GZ(2S)	2016
C633OR	2009	C644FS(2S)	2016	C650D	2009	C659Y	2016	C668M	2016	C684H	2016	C693H(2S)	2016
C633R	2009	C644G	2016	C650E	2009	C660	2016	C668OR	2016	C684J	2016	C693J	2016
C633X	2009	C644GN	2016	C650F	2009	C660(2S)	2016	C668R	2016	C684K	2016	C693K	2016
C633Y	2009	C644H(2S)	2016	C650G	2009	C661	2016	C668SP	2016	C684L	2016	C693L	2016
C634(2)	2009	C644J	2016	C650GN	2009	C661(2S)	2016	C668X	2016	C684M	2016	C693M	2016
C634(2S)	2009	C644K	2016	C650H	2009	C662(2S)	2016	C668Y	2016	C684OR	2016	C693NP	2016
C634-O	2009	C644L	2016	C650J	2009	C662A	2016	C673	2023	C684R	2016	C693OR	2016
C634-OR	2009	C644M	2016	C650K	2009	C662B	2016	C673(2S)	2016	C684TM	2016	C693R	2016
C634A(2S)	2009	C644OR	2016	C650L	2009	C662C	2016	C673B	2016	C684X	2016	C693U	2016
C634AK	2009	C644P(2S)	2016	C650M	2009	C662D	2016	C673C	2016	C684Y	2016	C693X	2016

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C693Y	2016	C710-3	2009	C713H	2009	C719	2009	C733S-BL	2016	C738J	2016	C752M	2009
C694(2S)	2016	C710-5	2009	C713J	2009	C719Q	2009	C733V(2S)	2016	C738K	2016	C752OR	2009
C694A	2016	C710-13	2009	C713K	2009	C720	2016	C733X	2016	C738L	2016	C752R	2009
C694B	2016	C710-14	2009	C713L(TRANS)	2009	C720(2S)	2016	C733Y(2S)	2016	C738M	2016	C752X	2009
C694C	2016	C710-D	2009	C713M	2009	C721	2009	C733YEL	2016	C738OR	2016	C752Y	2009
C694D	2016	C710-E	2009	C713MC	2009	C722	2016	C734	2009	C738R	2016	C754	2009
C694E(2S)	2016	C710-OR	2009	C713MD	2009	C722(2S)	2016	C734-0(2S)	2009	C738X	2016	C755	1617
C694F(2S)	2016	C710AL	2009	C713ME	2009	C723	2016	C734-G	2009	C738Y	2016	C758OR	2058
C694G(2S)	2016	C710B(2S)	2009	C713OR	2009	C723BL	2016	C734-GR	2009	C739(2S)	2016	C760	2009
C694GN	2016	C710B2	2009	C713R	2009	C724	2009	C734-GRN	2009	C739A	2016	C760(2S)	2041
C694H	2016	C710BC(2S)	2009	C713W	2009	C725(2S)	2009	C734-O(2S)	2009	C739B	2016	C761(2S)	2016
C694J	2016	C710C(2S)	2009	C713X	2009	C725-06	2009	C734-OR	2009	C739C(2S)	2016	C761A	2016
C694K	2016	C710D(2S)	2009	C713Y	2009	C726	2009	C734-ORG	2009	C739D	2016	C761B	2016
C694L	2016	C710D(JAPAN)	2009	C714(2S)	2009	C732(2S)	2016	C734-OY	2009	C739E	2016	C761C	2016
C694M	2016	C710DB	2009	C714A	2009	C732-B	2016	C734-R(2S)	2009	C739F	2016	C761D	2016
C694OR	2016	C710DE	2009	C714B	2009	C732-BL	2016	C734-RED	2009	C739G	2016	C761E	2016
C694R	2016	C710E(2S)	2009	C714C	2009	C732-BLU	2016	C734-Y(2S)	2009	C739GN	2016	C761F	2016
C694X	2016	C710F	2009	C714D	2009	C732-G	2016	C734-YEL	2009	C739H	2016	C761G	2016
C694Y	2016	C710G	2009	C714E	2009	C732-GR	2016	C734A	2009	C739K	2016	C761GN	2016
C694Z(2S)	2016	C710GN	2009	C714F	2009	C732-GRN	2016	C734B	2009	C739L	2016	C761H	2016
C703	2020	C710H	2009	C714G	2009	C732-OR	2016	C734C	2009	C739M	2016	C761J	2016
C704	2020	C710K	2009	C714GN	2009	C732-V	2016	C734D	2009	C739OR	2016	C761K	2016
C705(2S)	2016	C710L	2009	C714H	2009	C732-V10	2016	C734E	2009	C739R	2016	C761L	2016
C705A	2016	C710M	2009	C714J	2009	C732-VIO	2016	C734F	2009	C739Y	2016	C761M	2016
C705B(2S)	2016	C710OR	2009	C714K	2009	C732A	2016	C734G	2009	C740	2016	C761OR	2016
C705C(2S)	2016	C710R	2009	C714L	2009	C732B	2016	C734GN	2009	C740(2S)	2016	C761P	2016
C705D(2S)	2016	C710X	2009	C714M	2009	C732BL(2S)	2016	C734GR(2S)	2009	C740A	2016	C761R	2016
C705E(2S)	2016	C710XL	2009	C714OR	2009	C732BL-1	2016	C734GRN	2009	C740B	2016	C761X	2016
C705F(2S)	2016	C710Y	2009	C714R	2009	C732BLU	2016	C734H	2009	C740C	2016	C761Y(2S)	2016
C705G	2016	C711(2S)	2009	C714X	2009	C732C	2016	C734J	2009	C740D	2016	C761Z(2S)	2016
C705GN	2016	C711-OR	2009	C714Y	2009	C732D	2016	C734K	2009	C740E	2016	C762	2016
C705J	2016	C711A(2S)	2009	C715	2009	C732E	2016	C734L	2009	C740F	2016	C762(2S)	2016
C705K	2016	C711A(JAPAN)	2009	C715-OR	2009	C732F	2016	C734M	2009	C740G	2016	C762B	2016
C705L	2016	C711AE	2009	C715A(2S)	2009	C732G	2016	C734OR	2009	C740GN	2016	C762C	2016
C705M	2016	C711A-E(2S)	2009	C715B(2S)	2009	C732GN	2016	C734R	2009	C740H	2016	C762D	2016
C705OR	2016	C711AE(JAPAN)	2009	C715C(2S)	2009	C732GR(2S)	2016	C734RED	2009	C740J	2016	C762E	2016
C705R	2016	C711A-F	2009	C715D(2S)	2009	C732GRB	2016	C734X	2009	C740K	2016	C762F	2016
C705TV(2S)	2016	C711AF	2009	C715E(2S)	2009	C732GRN	2016	C734Y(2S)	2009	C740L	2016	C762G	2016
C705TVV	2016	C711AG	2009	C715EJ(2S)	2009	C732H	2016	C734YEL	2009	C740M	2016	C762GN	2016
C705TW	2016	C711AN	2009	C715EV(2S)	2009	C732J	2016	C735(2S)	2009	C740OR	2016	C762H	2016
C705X	2016	C711B	2009	C715F(2S)	2009	C732L	2016	C735-0(2S)	2009	C740R	2016	C762J	2016
C705Y	2016	C711C	2009	C715G	2009	C732M	2016	C735-GR	2009	C740X	2016	C762K	2016
C706	2016	C711D(2S)	2009	C715GN	2009	C732OR	2016	C735-GRN	2009	C740Y	2016	C762L	2016
C708(2S)	2030	C711E(2S)	2009	C715H	2009	C732R	2016	C735-O(2S)	2009	C742	2009	C762M	2016
C708-OR	2030	C711EF	2009	C715J	2009	C732S(2S)	2016	C735-OR	2009	C744	2030	C762R	2016
C708A(2S)	2030	C711F(2S)	2009	C715K	2009	C732V(2S)	2016	C735-ORG	2009	C744(2S)	2030	C762X	2016
C708AA(2S)	2030	C711G(2S)	2009	C715L	2009	C732V10	2016	C735-ORN	2009	C744A	2030	C762Y	2016
C708AB(2S)	2030	C711GN	2009	C715M	2009	C732VIO	2016	C735-OY	2009	C748(2S)	2016	C763(2S)	2016
C708AC(2S)	2030	C711H	2009	C715OR	2009	C732X	2016	C735-R(2S)	2009	C748A	2016	C763(JAPAN)	2016
C708AH(2S)	2030	C711J	2009	C715R	2009	C732Y(2S)	2016	C735-RED	2009	C748C	2016	C763-C	2016
C708B(2S)	2030	C711L	2009	C715X	2009	C733(2S)	2016	C735-Y	2009	C748D	2016	C763-OR	2016
C708C(2S)	2030	C711M	2009	C715XL(2S)	2009	C733-0(2S)	2016	C735-YEL	2009	C748E	2016	C763A	2016
C708D	2030	C711OR	2009	C715Y	2009	C733-B	2016	C735A	2009	C748F	2016	C763B(2S)	2016
C708E	2030	C711R	2009	C716(2S)	2009	C733-BL	2016	C735B(2S)	2009	C748G	2016	C763C(2S)	2016
C708F	2030	C711X	2009	C716A	2009	C733-BLU	2016	C735C	2009	C748GN	2016	C763D(2S)	2016
C708G	2030	C711Y	2009	C716B(2S)	2009	C733-G	2016	C735D	2009	C748H	2016	C763E	2016
C708GN	2030	C712(2S)	2009	C716C(2S)	2009	C733-GR	2016	C735E	2009	C748J	2016	C763F	2016
C708H	2030	C712A(2S)	2009	C716D(2S)	2009	C733-GRN	2016	C735F(2S)	2009	C748K	2016	C763G	2016
C708HA	2030	C712B	2009	C716E(2S)	2009	C733-O(2S)	2016	C735FA3(2S)	2009	C748L	2016	C763GN	2016
C708HB	2030	C712BC	2009	C716F(2S)	2009	C733-OR	2016	C735G	2009	C748M	2016	C763H	2016
C708L	2030	C712C(2S)	2009	C716G(2S)	2009	C733-ORG	2016	C735GN	2009	C748OR	2016	C763J	2016
C708M	2030	C712CD	2009	C716GN	2009	C733-Y	2016	C735GR(2S)	2009	C748R	2016	C763K	2016
C708OR	2030	C712D(2S)	2009	C716H	2009	C733-YEL	2016	C735GRN	2009	C748X	2016	C763L	2016
C708R	2030	C712DC	2009	C716J	2009	C733A	2016	C735H(2S)	2009	C748Y	2016	C763M	2016
C708X	2030	C712E(2S)	2009	C716K	2009	C733B	2016	C735J(2S)	2009	C751	2016	C763OR	2016
C708Y	2030	C712F	2009	C716L	2009	C733BL(2S)	2016	C735K(2S)	2009	C752(2S)	2009	C763X	2016
C709(2S)	2009	C712G	2009	C716M	2009	C733BLK	2016	C735L(2S)	2009	C752-ORG-G	2009	C763Y	2016
C709A	2009	C712GN	2009	C716OR	2009	C733BLU	2016	C735M	2009	C752-RED-G	2009	C764	2035
C709B(2S)	2009	C712H	2009	C716R	2009	C733C	2016	C735O	2009	C752-YEL-G	2009	C764(2S)	2009
C709C(2S)	2009	C712J	2009	C716X	2009	C733D	2016	C735OR	2009	C752A	2009	C766	2041
C709CD(2S)	2009	C712K	2009	C716Y	2009	C733E	2016	C735RED	2009	C752B	2009	C767	2041
C709D(2S)	2009	C712L(TRANS)	2009	C717(2S)	2016	C733ER	2016	C735X	2009	C752C	2009	C771	2058
C709E	2009	C712M	2009	C717(JAPAN)	2016	C733F	2016	C735Y(2S)	2009	C752D	2009	C771A	2058
C709F	2009	C712OR	2009	C717-TM	2016	C733G	2016	C735YEL	2009	C752E	2009	C771B	2058
C709G	2009	C712R	2009	C717B(2S)	2016	C733GN	2016	C735YFA-5	2009	C752F	2009	C771BX	2058
C709GN	2009	C712W(2S)	2009	C717BK(2S)	2016	C733GR(2S)	2016	C737	2009	C752G(2S)	2009	C771C	2058
C709H	2009	C712X	2009	C717BLK(2S)	2016	C733GRN	2016	C737Y	2009	C752GA	2009	C771D	2058
C709J	2009	C712Y	2009	C717F	2016	C733H	2016	C738(2S)	2016	C752GN	2009	C771E	2058
C709L	2009	C713(2S)	2009	C717G	2016	C733J	2016	C738A	2016	C752G-O	2009	C771F	2058
C709M	2009	C713A	2009	C717GN	2016	C733K	2016	C738B	2016	C752G-R	2009	C771G	2058
C709OR	2009	C713B	2009	C717H	2016	C733L	2016	C738C(2S)	2016	C752G-TM-Y	2009	C771GN	2058
C709X	2009	C713C	2009	C717K	2016	C733M	2016	C738D(2S)	2016	C752G-Y	2009	C771H	2058
C709Y	2009	C713D	2009	C717L	2016	C733O	2016	C738E	2016	C752GY(JAPAN)	2009	C771J	2058
C710(2S)	2009	C713E	2009	C717M	2016	C733OR	2016	C738F	2016	C752H	2009	C771K	2058
C710(C)	2009	C713F	2009	C717TM	2016	C733Q	2016	C738G	2016	C752J	2009	C771L	2058
C710(JAPAN)	2009	C713G	2009	C717X	2016	C733R(2S)	2016	C738GN	2016	C752K	2009	C771M	2058
C710-0	2009	C713GN	2009	C718	2009	C733S	2016	C738H	2016	C752L	2009	C771OR	2058

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C771R	2058
C771X	2058
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C772(2S)	2058
C772-OR	2058
C772A	2058
C772B	2058
C772B(2S)	2058
C772BG(2S)	2058
C772BH(2S)	2058
C772BV(2S)	2058
C772BX(2S)	2058
C772BY(2S)	2058
C772C	2058
C772C1(2S)	2058
C772C2(2S)	2058
C772CA	2058
C772CK(2S)	2058
C772CL(2S)	2058
C772CS(2S)	2058
C772CU(2S)	2058
C772CV(2S)	2058
C772CX(2S)	2058
C772D(2S)	2058
C772DJ(2S)	2058
C772DU(2S)	2058
C772DV(2S)	2058
C772DX(2S)	2058
C772DY(2S)	2058
C772E(2S)	2058
C772F(2S)	2058
C772G	2058
C772GN	2058
C772H	2058
C772J	2058
C772K(2S)	2058
C772KB(2S)	2058
C772KC(2S)	2058
C772KD(2S)	2058
C772KD1(2S)	2058
C772KD2(2S)	2058
C772L	2058
C772M	2058
C772OR	2058
C772R	2058
C772RB-D(2S)	2058
C772RD(2S)	2058
C772RS-D	2058
C772X	2058
C772Y	2058
C773(2S)	2009
C773A	2009
C773B	2009
C773C(2S)	2009
C773D(2S)	2009
C773E(2S)	2009
C773F	2009
C773G	2009
C773GN	2009
C773H	2009
C773J	2009
C773K	2009
C773L	2009
C773M	2009
C773OR	2009
C773R	2009
C773X	2009
C773Y	2009
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C784-0(2S)	2058
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C784-O(2S)	2058
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C784-ORG	2058
C784-R	2058
C784-RED	2058
C784-Y	2058
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C784BRN	2058
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C785-Y	2058
C785-YEL	2058
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C785B	2058
C785BL	2058
C785BN(2S)	2058
C785BR	2058
C785BRN	2058
C785C	2058
C785D(2S)	2058
C785E(2S)	2058
C785F	2058
C785G	2058
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C785H	2058
C785JA	2058
C785K	2058
C785L	2058
C785M	2058
C785O	2058
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C785YEL	2058
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C786C	2016
C786D	2016
C786E	2016
C786F	2016
C786G	2016
C786GN	2016
C786H	2016
C786J	2016
C786K	2016
C786L	2016
C786M	2016
C786OR	2016
C786R(2S)	2016
C786X	2016
C786Y	2016
C787(2S)	2016
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C787B	2016
C787C	2016
C787D	2016
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C787GN	2016
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C787X	2016
C787Y	2016
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C790-R	2020
C790-Y	2020
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C793-YEL	2041
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C793BL(2S)	2041
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C794Y	2041
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C796L	1617
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C796OR	1617
C796R	1617
C796X	1617
C796Y	1617
C797(2S)	2009
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C797B	2009
C797C	2009
C797D	2009
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C797F	2009
C797G	2009
C797GN	2009
C797H	2009
C797J	2009
C797K	2009
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C797Y	2009
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C815C(2S)	2009
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C815F(2S)	2009
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C815M(2S)	2009
C815OR	2009
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C815Y	2009
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C816K(2S)	2030
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C826(2S)	2030
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C828A(2S)	2009
C828A(JAPAN)	2009
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C828AQ(2S)	2009
C828AR(2S)	2009
C828AS(2S)	2009
C828B	2009
C828C	2009
C828D	2009
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C828H(2S)	2009
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C828K(2S)	2009
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C828LS(2S)	2009
C828M	2009
C828OR	2009
C828P(2S)	2009
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C828Q-6	2009
C828QRS(2S)	2009
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C828R(JAPAN)	2009
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C828S(JAPAN)	2009
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C828Y(2S)	2009
C828YL	2009
C829	2009
C829-OR	2009
C829A(2S)	2009
C829AK	2009
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C829BC(2S)	2009
C829BJ	2009
C829BK	2009
C829C	2009
C829CL	2009
C829D(2S)	2009
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C829M	2009
C829OR	2009
C829R(2S)	2009
C829X(2S)	2009
C829Y(2S)	2009
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C835(2S)	2016
C836(2S)	2016
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C837(2S)	2058
C837A	2058
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C837WF(2S)	2058
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C838C(2S)	2009
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C838F(2S)	2009
C838H(2S)	2009
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C838I	2009
C838J	2009
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C838L(2S)	2009
C838M(2S)	2009
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C839E(2S)	2009
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C839L(2S)	2009
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C839OR	2009
C839R	2009
C839X	2009
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C847(2S)	1617
C847A	1617
C847B	1617
C847C	1617
C847D	1617
C847E	1617
C847F	1617
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C848(2S)	1617
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C850L	1617
C850M	1617
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C850R	1617
C850X	1617
C850Y	1617
C858(2S)	2016
C858A	2016
C858B	2016
C858C	2016
C858D	2016
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C858F(2S)	2016
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C858G(2S)	2016
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C858GN	2016
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C858M	2016
C858OR	2016
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C858Y	2016
C859(2S)	2016
C859A	2016
C859B	2016
C859D	2016
C859E(2S)	2016
C859F(2S)	2016
C859FG(2S)	2016
C859G(2S)	2016
C859GK(2S)	2016
C859GL	2016
C859GM	2016
C859GN	2016
C859H	2016
C859J	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C859K	2016	C875-1E(2S)	2030	C896GN	1617	C911	2017	C921X	2016	C928(2S)	2016	C930X	2016
C859L	2016	C875-1F(2S)	2030	C896J	1617	C911A	2017	C921Y	2016	C928A	2016	C930Y	2016
C859M	2016	C875-2(2S)	2030	C896K	1617	C912(2S)	2016	C922(2S)	2009	C928B(2S)	2016	C932(2S)	2017
C859OR	2016	C875-2C(2S)	2030	C896L	1617	C912M	1617	C922A(2S)	2009	C928C(2S)	2016	C932A	2017
C859R	2016	C875-2D(2S)	2030	C896M	1617	C914	1617	C922B(2S)	2009	C928D(2S)	2016	C932B	2017
C859X	2016	C875-2E(2S)	2030	C896OR	1617	C914A	1617	C922C(2S)	2009	C928E(2S)	2016	C932BK	2017
C859Y	2016	C875-2F(2S)	2030	C896R	1617	C915	1617	C922K(2S)	2009	C928F	2016	C932C	2017
C860(2S)	2016	C875-3(2S)	2030	C896X	1617	C915A	1617	C922L(2S)	2009	C928G	2016	C932D	2017
C860A	2016	C875-3C(2S)	2030	C896Y	1617	C916	2020	C922M(2S)	2009	C928GN	2016	C932E(2S)	2017
C860B	2016	C875-3D(2S)	2030	C897(2S)	2041	C917(2S)	2016	C923(2S)	2016	C928H	2016	C932F	2017
C860C(2S)	2016	C875-3E(2S)	2030	C897A(2S)	2041	C917A	2016	C923A(2S)	2016	C928J	2016	C932G	2017
C860D(2S)	2016	C875-3F(2S)	2030	C897B(2S)	2041	C917B	2016	C923B(2S)	2016	C928K	2016	C932GN	2017
C860E(2S)	2016	C875B	2030	C898(2S)	2041	C917C	2016	C923C(2S)	2016	C928L	2016	C932H	2017
C860F	2016	C875C(2S)	2030	C898A(2S)	2041	C917D	2016	C923D(2S)	2016	C928M	2016	C932J	2017
C860G	2016	C875D(2S)	2030	C898B(2S)	2041	C917E	2016	C923E(2S)	2016	C928OR	2016	C932K	2017
C860GN	2016	C875DL	2030	C899	1617	C917F	2016	C923F(2S)	2016	C928R	2016	C932L	2017
C860H	2016	C875E(2S)	2030	C899A	1617	C917G	2016	C923G	2016	C928X	2016	C932M	2017
C860J	2016	C875EL	2030	C899B	1617	C917GN	2016	C923GN	2016	C928Y	2016	C932OR	2017
C860K	2016	C875F(2S)	2030	C899C	1617	C917H	2016	C923H	2016	C929(2S)	2016	C932R	2017
C860L	2016	C875G	2030	C899D	1617	C917J	2016	C923K	2016	C929-0(2S)	2016	C932X	2017
C860M	2016	C875GN	2030	C899E	1617	C917K(2S)	2016	C923L	2016	C929-O	2016	C932Y	2017
C860OR	2016	C875J	2030	C899F	1617	C917L	2016	C923M	2016	C929A	2016	C933(2S)	2009
C860R	2016	C875K	2030	C899G	1617	C917M	2016	C923OR	2016	C929B(2S)	2016	C933A	2009
C860X	2016	C875L	2030	C899GN	1617	C917OR	2016	C923R	2016	C929C(2S)	2016	C933B	2009
C860Y	2016	C875M	2030	C899H	1617	C917R	2016	C923X	2016	C929C1(2S)	2016	C933BB(2S)	2009
C863(2S)	2016	C875OR	2030	C899J	1617	C917X	2016	C923Y	2016	C929D(2S)	2016	C933C(2S)	2009
C863A	2016	C875X	2030	C899K(2S)	1617	C917Y	2016	C924(2S)	2016	C929D1(2S)	2016	C933D(2S)	2009
C863B	2016	C875Y	2030	C899L	1617	C918(2S)	2058	C924A	2016	C929DE(2S)	2016	C933E(2S)	2009
C863C	2016	C876(2S)	2030	C899M	1617	C918A	2058	C924B	2016	C929DP(2S)	2016	C933F(2S)	2009
C863D	2016	C876-E	2030	C899OR	1617	C918AL	2058	C924C	2016	C929DU(2S)	2016	C933FB	2009
C863E	2016	C876-F	2030	C899R	1617	C918B	2058	C924D	2016	C929DV(2S)	2016	C933FP(2S)	2009
C863F	2016	C876A	2030	C899X	1617	C918C	2058	C924E(2S)	2016	C929E(2S)	2016	C933G(2S)	2009
C863G	2016	C876B	2030	C899Y	1617	C918D	2058	C924F(2S)	2016	C929ED(2S)	2016	C933GN	2009
C863GN	2016	C876C(2S)	2030	C900(2S)	2016	C918E	2058	C924G	2016	C929EZ	2016	C933H	2009
C863H	2016	C876D(2S)	2030	C900-OR	2016	C918F	2058	C924GN	2016	C929F(2S)	2016	C933J	2009
C863J	2016	C876E(2S)	2030	C900A(2S)	2016	C918G	2058	C924H	2016	C929FK(2S)	2016	C933K	2009
C863K	2016	C876F(2S)	2030	C900AF	2016	C918GN	2058	C924J	2016	C929G	2016	C933L	2009
C863L	2016	C876G	2030	C900B(2S)	2016	C918H	2058	C924K	2016	C929GN	2016	C933M	2009
C863M	2016	C876GN	2030	C900C(2S)	2016	C918J	2058	C924L	2016	C929H	2016	C933OR	2009
C863OR	2016	C876H	2030	C900D(2S)	2016	C918K	2058	C924M(2S)	2016	C929J	2016	C933R	2009
C863R	2016	C876J	2030	C900E(2S)	2016	C918L	2058	C924OR	2016	C929K	2016	C933X	2009
C863X	2016	C876K	2030	C900F(2S)	2016	C918LF	2058	C924R	2016	C929L	2016	C933Y	2009
C863Y	2016	C876L	2030	C900G	2016	C918M	2058	C924X	2016	C929M	2016	C934	1617
C864(2S)	2016	C876M	2030	C900J	2016	C918OR	2058	C924Y	2016	C929NP	2016	C934-O	1617
C870(2S)	2009	C876OR	2030	C900K	2016	C918R	2058	C925(2S)	2009	C929OR	2016	C934A	1617
C870A	2009	C876R	2030	C900L(2S)	2016	C918X	2058	C925A	2009	C929R	2016	C934B	1617
C870B	2009	C876TV(2S)	2030	C900M(2S)	2016	C918XL	2058	C925B	2009	C929SP	2016	C934C(2S)	1617
C870C	2009	C876TVD(2S)	2030	C900OR	2016	C918Y	2058	C925C	2009	C929X	2016	C934D(2S)	1617
C870D	2009	C876TV-E	2030	C900R	2016	C920(2S)	2058	C925D	2009	C929Y	2016	C934E(2S)	1617
C870E(2S)	2009	C876TVE(2S)	2030	C900S	2016	C920-0Q	2058	C925E	2009	C930(2S)	2016	C934F(2S)	1617
C870F(2S)	2009	C876TVEF(2S)	2030	C900SA	2016	C920-OR	2058	C925F	2009	C930-OR	2016	C934G(2S)	1617
C870FL	2009	C876TV-F	2030	C900SB	2016	C920A	2058	C925G	2009	C930A	2016	C934GN	1617
C870G	2009	C876TVF	2030	C900SC	2016	C920B	2058	C925GN	2009	C930B(2S)	2016	C934H	1617
C870GN	2009	C876X	2030	C900SD	2016	C920C	2058	C925H	2009	C930BK(2S)	2016	C934J	1617
C870H	2009	C876Y	2030	C900U(2S)	2016	C920CL	2058	C925J	2009	C930C(2S)	2016	C934K	1617
C870J	2009	C877	1617	C900UE	2016	C920D	2058	C925K	2009	C930C-IF	2016	C934L	1617
C870K	2009	C878	1617	C900V	2016	C920E(2S)	2058	C925L	2009	C930CK(2S)	2016	C934M	1617
C870L	2009	C879	2016	C900VE	2016	C920F	2058	C925M	2009	C930CL(2S)	2016	C934OR	1617
C870M	2009	C883	2020	C900X	2016	C920G	2058	C925OR	2009	C930CS(2S)	2016	C934Q	1617
C870OR	2009	C889(2S)	2041	C900Y	2016	C920GN	2058	C925R	2009	C930D(2S)	2016	C934R	1617
C870R	2009	C892	2020	C903	2009	C920H	2058	C925X	2009	C930DB	2016	C934X	1617
C870X	2009	C894(2S)	2009	C904	2009	C920L	2058	C925Y	2009	C930DC	2016	C934Y	1617
C870Y	2009	C894A	2009	C906	1617	C920M	2058	C927(2S)	2016	C930DE(2S)	2016	C936(2S)	2055
C871(2S)	2009	C894B	2009	C906F	1617	C920OR	2058	C927A(2S)	2016	C930DK	2016	C936A	2055
C871-G	2009	C894C	2009	C907(2S)	1617	C920Q(2S)	2058	C927B(2S)	2016	C930DS(2S)	2016	C936B	2055
C871A	2009	C894D	2009	C907A(2S)	1617	C920R(2S)	2058	C927C(2S)	2016	C930DT(2S)	2016	C936BK	2055
C871AM	2009	C894E	2009	C907AC(2S)	1617	C920X	2058	C927CJ(2S)	2016	C930DT-2(2S)	2016	C936C	2055
C871B	2009	C894F	2009	C907AD(2S)	1617	C920Y	2058	C927CK	2016	C930DX(2S)	2016	C936D	2055
C871C	2009	C894G	2009	C907AH(2S)	1617	C921(2S)	2016	C927CT	2016	C930DZ(2S)	2016	C936E	2055
C871D(2S)	2009	C894GN	2009	C907B	1617	C921A	2016	C927CU(2S)	2016	C930E(2S)	2016	C936F	2055
C871E(2S)	2009	C894H	2009	C907C(2S)	1617	C921B	2016	C927CW(2S)	2016	C930E(JAPAN)	2016	C936G	2055
C871F(2S)	2009	C894J	2009	C907D(2S)	1617	C921C	2016	C927D(2S)	2016	C930EP(2S)	2016	C936GN	2055
C871G(2S)	2009	C894K	2009	C907E	1617	C921C1(2S)	2016	C927E(2S)	2016	C930ET(2S)	2016	C936H	2055
C871GN	2009	C894L	2009	C907F	1617	C921CL	2016	C927F	2016	C930EV(2S)	2016	C936J	2055
C871H	2009	C894M	2009	C907G	1617	C921D	2016	C927G	2016	C930EX(2S)	2016	C936K	2055
C871J	2009	C894OR	2009	C907GN	1617	C921E	2016	C927GN	2016	C930F(2S)	2016	C936L	2055
C871K	2009	C894R	2009	C907H(2S)	1617	C921F	2016	C927H	2016	C930G	2016	C936M	2055
C871L	2009	C894X	2009	C907HA(2S)	1617	C921G	2016	C927J	2016	C930GN	2016	C936OR	2055
C871M	2009	C894Y	2009	C907J	1617	C921GN	2016	C927K	2016	C930H	2016	C936R	2055
C871OR	2009	C896(2S)	1617	C907K	1617	C921H	2016	C927L	2016	C930J	2016	C936X	2055
C871R	2009	C896A	1617	C907L	1617	C921J	2016	C927M	2016	C930K	2016	C936Y	2055
C871X	2009	C896B	1617	C907M	1617	C921K(2S)	2016	C927OR	2016	C930L	2016	C938(2S)	2009
C871Y	2009	C896C	1617	C907OR	1617	C921L(2S)	2016	C927R	2016	C930M	2016	C938-O	2009
C875(2S)	2030	C896D	1617	C907R	1617	C921M(2S)	2016	C927X	2016	C930NP	2016	C938A(2S)	2009
C875-1(2S)	2030	C896E	1617	C907X	1617	C921OR	2016	C927XL	2016	C930OR	2016	C938B(2S)	2009
C875-1C(2S)	2030	C896F	1617	C907Y	1617	C921R	2016	C927Y	2016	C930R	2016	C938C(2S)	2009
C875-1D(2S)	2030	C896G	1617	C909	2017	C921W	2016	C927Z	2016	C930SP	2016	C938D	2009

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C938E	2009	C945TK	2009	C959SB(2S)	2030	C979-R	1617	C1000D	2016	C1023-Y(2S)	2016	C1035E(2S)	2016
C938F	2009	C945TP	2009	C959SC(2S)	2030	C979-Y	1617	C1000E	2016	C1023A	2016	C1035F	2016
C938G	2009	C945TQ(2S)	2009	C959SD(2S)	2030	C979A	1617	C1000F	2016	C1023B	2016	C1035GN	2016
C938GN	2009	C945X(2S)	2009	C959X	2030	C979A-O	1617	C1000G	2016	C1023C	2016	C1035H	2016
C938H	2009	C945Y	2009	C959Y	2030	C979A-R	1617	C1000G-BL	2016	C1023D	2016	C1035J	2016
C938J	2009	C945Y(KOREA)	2009	C963	1617	C980	2009	C1000GBL	2016	C1023E	2016	C1035L	2016
C938K	2009	C947(2S)	2016	C964	1617	C980AG	2009	C1000G-GR	2016	C1023F	2016	C1035M	2016
C938L	2009	C947A	2016	C965	1617	C980AG-O	2009	C1000GN	2016	C1023G(2S)	2016	C1035OR	2016
C938M	2009	C947B	2016	C966(2S)	1617	C980AG-R	2009	C1000GR	2016	C1023GN	2016	C1035R	2009
C938OR	2009	C947C	2016	C966A	1617	C980G	2009	C1000H	2016	C1023H	2016	C1035X	2009
C938R	2009	C947D	2016	C966B	1617	C980G-O	2009	C1000J	2016	C1023J	2016	C1035Y	2016
C938X	2009	C947E	2016	C966C	1617	C980G-R	2009	C1000K	2016	C1023K	2016	C1036	2016
C938Y	2009	C947F	2016	C966D	1617	C980G-Y	2009	C1000L	2016	C1023L	2016	C1036(TRANS)	2016
C941(2S)	2009	C947G	2016	C966E	1617	C984(2S)	2009	C1000M	2016	C1023M	2016	C1036A(TRANS)	2016
C941-O	2009	C947GN	2016	C966F	1617	C984A(2S)	2009	C1000OR	2016	C1023OR	2016	C1036B(TRANS)	2016
C941-0Y	2009	C947H	2016	C966G	1617	C984B(2S)	2009	C1000R	2016	C1023R	2016	C1036C	2016
C941-O(2S)	2009	C947J	2016	C966GN	1617	C984C(2S)	2009	C1000X	2016	C1023X	2016	C1036D	2016
C941-OY	2009	C947K	2016	C966H	1617	C984D	2009	C1000Y(2S)	2016	C1023Y	2016	C1036E	2016
C941-R(2S)	2009	C947L	2016	C966J	1617	C984E	2009	C1002	2016	C1026	2016	C1036F	2016
C941-Y(2S)	2009	C947M	2016	C966K	1617	C984F	2009	C1003	2009	C1026(TRANS)	2016	C1036G	2016
C941K	2009	C947OR	2016	C966L	1617	C984G	2009	C1004	2055	C1026-O	2016	C1036GN	2016
C941O	2009	C947R	2016	C966M	1617	C984GN	2009	C1004(2S)	2055	C1026-R	2016	C1036H	2016
C941R(2S)	2009	C947X	2016	C966OR	1617	C984H	2009	C1004(TRANS)	2055	C1026A(TRANS)	2016	C1036J	2016
C941TM	2009	C947Y	2016	C966R	1617	C984J	2009	C1004A(2S)	2055	C1026B(TRANS)	2016	C1036K	2016
C941TM-O	2009	C948(2S)	2016	C966X	1617	C984L	2009	C1004A(TRANS)	2055	C1026BL	2016	C1036L	2016
C941Y	2009	C948A	2016	C966Y	1617	C984M	2009	C1004B	2055	C1026C	2016	C1036M	2016
C942	1617	C948B	2016	C967(2S)	1617	C984OR	2009	C1004C	2055	C1026D	2016	C1036OR	2016
C943(2S)	1617	C948D	2016	C967A	1617	C984R	2009	C1004D	2055	C1026E	2016	C1036R	2016
C943A(2S)	1617	C948E	2016	C967B	1617	C984X	2009	C1004E	2055	C1026F	2016	C1036X	2016
C943B(2S)	1617	C948F	2016	C967C	1617	C984Y	2009	C1004F	2055	C1026G(2S)	2016	C1036Y	2016
C943C(2S)	1617	C948G	2016	C967D	1617	C985	2016	C1004G	2055	C1026GN	2016	C1044(2S)	2016
C943D	1617	C948GN	2016	C967E	1617	C985A	2016	C1004GN	2055	C1026GR	2016	C1045	2055
C943E	1617	C948H	2016	C967F	1617	C987	2016	C1004H	2055	C1026H	2016	C1045(2S)	2055
C943F	1617	C948J	2016	C967G	1617	C987A	2016	C1004J	2055	C1026J	2016	C1045A	2055
C943G	1617	C948K	2016	C967GN	1617	C988	2016	C1004K	2055	C1026K	2016	C1045B(2S)	2055
C943GN	1617	C948L	2016	C967H	1617	C988A	2016	C1004L	2055	C1026L	2016	C1045C(2S)	2055
C943H	1617	C948M	2016	C967J	1617	C988B	2016	C1004M	2055	C1026M	2016	C1045D(2S)	2055
C943J	1617	C948OR	2016	C967K	1617	C990	2020	C1004OR	2055	C1026OR	2016	C1045E(2S)	2055
C943K	1617	C948R	2016	C967L	1617	C993(2S)	1617	C1004R	2055	C1026R	2016	C1045F	2055
C943L	1617	C948X	2016	C967M	1617	C993D	1617	C1004X	2055	C1026X	2016	C1045G	2055
C943M	1617	C948Y	2016	C967OR	1617	C993E	1617	C1004Y	2055	C1026Y(2S)	2016	C1045GN	2055
C943OR	1617	C949	2016	C967R	1617	C994	2009	C1005	2055	C1030(TRANS)	2041	C1045H	2055
C943R	1617	C950	1617	C967X	1617	C997(2S)	2058	C1005(2S)	2055	C1030-OR	2041	C1045J	2055
C943X	1617	C951	2009	C967Y	1617	C997A	2058	C1005A	2055	C1030A(TRANS)	2041	C1045K	2055
C943Y	1617	C952	2009	C968(2S)	2009	C997B	2058	C1005A(2S)	2055	C1030B(TRANS)	2041	C1045L	2055
C944(2S)	2009	C953	1617	C968A	2009	C997C	2058	C1005B	2055	C1030B2C	2041	C1045M	2055
C944S	2009	C954	1617	C968B	2009	C997D	2058	C1005C	2055	C1030C(2S)	2041	C1045OR	2055
C945	2009	C955	1617	C968C	2009	C997E	2058	C1005D	2055	C1030D(2S)	2041	C1045R(2S)	2055
C945(JAPAN)	2009	C956	1617	C968D	2009	C997F	2058	C1005E	2055	C1030E	2041	C1045X	2055
C945-0	2009	C957(2S)	2016	C968E	2009	C997G	2058	C1005F	2055	C1030F	2041	C1045Y	2055
C945-O(2S)	2009	C957A	2016	C968F	2009	C997GN	2058	C1005G	2055	C1030G	2041	C1046	2055
C945-OR	2009	C957AL	2016	C968G	2009	C997H	2058	C1005GN	2055	C1030H	2041	C1046(2S)	2055
C945-YX	2009	C957B	2016	C968GN	2009	C997J	2058	C1005H	2055	C1030J	2041	C1046-OR	2055
C945A(2S)	2009	C957C	2016	C968H	2009	C997K	2058	C1005J	2055	C1030K	2041	C1046A(TRANS)	2055
C945AK	2009	C957D	2016	C968J	2009	C997L	2058	C1005K	2055	C1030L	2041	C1046B(TRANS)	2055
C945AP(2S)	2009	C957E	2016	C968K	2009	C997M	2058	C1005L	2055	C1030M	2041	C1046C	2055
C945AQ(2S)	2009	C957F	2016	C968L	2009	C997OR	2058	C1005M	2055	C1030OR	2041	C1046D	2055
C945AR	2009	C957G	2016	C968M	2009	C997R	2058	C1005OR	2055	C1030P	2041	C1046E	2055
C945B(2S)	2009	C957GN	2016	C968OR	2009	C997X	2058	C1005R	2055	C1030R	2041	C1046F	2055
C945C(2S)	2009	C957H	2016	C968P(2S)	2009	C997Y	2058	C1005X	2055	C1030X	2041	C1046G	2055
C945D(2S)	2009	C957J	2016	C968R	2009	C999(2S)	2055	C1005Y	2055	C1030Y	2041	C1046GN	2055
C945E(2S)	2009	C957K	2016	C968X	2009	C999A	2055	C1006(2S)	2016	C1032	2016	C1046H	2055
C945F(2S)	2009	C957L	2016	C968Y	2009	C999B	2055	C1006A	2016	C1032(TRANS)	2016	C1046J	2055
C945G(2S)	2009	C957M	2016	C969	1617	C999C	2055	C1006A(2S)	2016	C1032A(TRANS)	2016	C1046K	2055
C945GN	2009	C957OR	2016	C970	1617	C999D	2055	C1006B(2S)	2016	C1032B(TRANS)	2016	C1046L	2055
C945H(2S)	2009	C957R	2016	C972(2S)	2030	C999E	2055	C1006C(2S)	2016	C1032BL	2016	C1046M	2055
C945J	2009	C957X	2016	C972A	2030	C999F	2055	C1007(2S)	1617	C1032C	2016	C1046N	2055
C945K(2S)	2009	C957XL	2016	C972B	2030	C999G	2055	C1008(2S)	2030	C1032D	2016	C1046OR	2055
C945L(2S)	2009	C957Y	2016	C972C(2S)	2030	C999GN	2055	C1008A	2030	C1032E	2016	C1046R	2055
C945LP	2009	C959(2S)	2030	C972D(2S)	2030	C999H	2055	C1008Y(KOREA)	2009	C1032F	2016	C1046X	2055
C945LP(JAPAN)	2009	C959A(2S)	2030	C972E(2S)	2030	C999J	2055	C1009	2058	C1032G(2S)	2016	C1046Y	2055
C945LQ	2009	C959B(2S)	2030	C972F	2030	C999K	2055	C1009A	2058	C1032GN	2016	C1047(2S)	2016
C945M(2S)	2009	C959C(2S)	2030	C972G	2030	C999L	2055	C1009F1	2058	C1032H	2016	C1047A	2016
C945OR	2009	C959D(2S)	2030	C972GN	2030	C999M	2055	C1009F2	2058	C1032J	2016	C1047B(2S)	2016
C945P(2S)	2009	C959E	2030	C972H	2030	C999OR	2055	C1009F3	2058	C1032K	2016	C1047BC	2016
C945P(JAPAN)	2009	C959F	2030	C972J	2030	C999R	2055	C1009F4	2058	C1032L	2016	C1047BCD	2016
C945P1	2009	C959G	2030	C972K	2030	C999X	2055	C1009F5	2058	C1032M	2016	C1047C(2S)	2016
C945PJ	2009	C959GN	2030	C972L	2030	C999Y	2055	C1010	2016	C1032OR	2016	C1047D(2S)	2016
C945PQ	2009	C959H	2030	C972M	2030	C1000	2016	C1010(TRANS)	2016	C1032R	2016	C1047E(2S)	2016
C945Q(2S)	2009	C959J	2030	C972OR	2030	C1000(2S)	2016	C1010A	2016	C1032X	2016	C1047F	2016
C945Q(JAPAN)	2009	C959K	2030	C972R	2030	C1000-BL(2S)	2016	C1010A(TRANS)	2016	C1032Y(2S)	2016	C1047G	2016
C945QL(2S)	2009	C959L	2030	C972X	2030	C1000-GR(2S)	2016	C1010B	2016	C1035	2016	C1047GN	2016
C945QP(2S)	2009	C959M(2S)	2030	C972Y	2030	C1000-Y(2S)	2016	C1010B(TRANS)	2016	C1035(TRANS)	2016	C1047GR	2016
C945R(2S)	2009	C959OR	2030	C976	2030	C1000A	2016	C1010C(2S)	2016	C1035A(TRANS)	2016	C1047H	2016
C945RA	2009	C959R	2030	C976TV	2030	C1000B	2016	C1019C	2020	C1035B(TRANS)	2016	C1047J	2016
C945S(2S)	2009	C959S(2S)	2030	C979	1617	C1000BL	2016	C1023	2016	C1035C(2S)	2016	C1047K	2016
C945T(2S)	2009	C959SA(2S)	2030	C979-O	1617	C1000C	2016	C1023-O(2S)	2016	C1035D(2S)	2016	C1047L	2016

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C1047M	2016	C1100C	2055	C1126L	2058	C1172B(2S)	2055	C1213D(2S)	2009	C1296	2055	C1321	2016
C1047R	2016	C1100D	2055	C1126M	2058	C1172C	2055	C1213D-24	2009	C1300	2055	C1321Q2	2016
C1047X	2016	C1100E	2055	C1126OR	2058	C1172D	2055	C1213E	2009	C1308(2S)	2055	C1321Q3	2016
C1047Y	2016	C1100F	2055	C1126R	2058	C1172E	2055	C1213F	2009	C1308K(2S)	2055	C1321Q4	2016
C1051(2S)	2041	C1100G	2055	C1126X	2058	C1172F	2055	C1213G	2009	C1308L	2055	C1321Q5	2016
C1051L	2041	C1100GN	2055	C1126Y	2058	C1172G	2055	C1213GN	2009	C1308N	2055	C1322	2041
C1052	2030	C1100H	2055	C1128(2S)	2058	C1172GN	2055	C1213H	2009	C1309(2S)	2055	C1325(2S)	2055
C1053	2030	C1100J	2055	C1128-O	2058	C1172H	2055	C1213J	2009	C1310	2009	C1325A(2S)	2055
C1054	2016	C1100K	2055	C1128A	2058	C1172J	2055	C1213K	2009	C1311	2009	C1325AK	2055
C1060	2020	C1100L	2055	C1128B	2058	C1172K	2055	C1213L	2009	C1312(2S)	2016	C1325AL	2055
C1060(2S)	2020	C1100M	2055	C1128BL	2058	C1172L	2055	C1213M	2009	C1312A	2016	C1327(2S)	2016
C1060A	2020	C1100OR	2055	C1128C	2058	C1172M	2055	C1213OR	2009	C1312BC	2016	C1327FS(2S)	2016
C1060A(2S)	2020	C1100R	2055	C1128D(2S)	2058	C1172R	2055	C1213Q	2009	C1312C	2016	C1327R	2016
C1060B	2020	C1100X	2055	C1128G	2058	C1172X	2055	C1213X	2009	C1312D	2016	C1327S	2016
C1060B(2S)	2020	C1100Y	2055	C1128H	2058	C1172Y	2055	C1213Y	2009	C1312E	2016	C1327T	2016
C1060BL	2020	C1101	2055	C1128M	2058	C1173(2S)	2020	C1214(2S)	2009	C1312F(2S)	2016	C1327TU	2016
C1060BM(2S)	2020	C1101(TRANS)	2055	C1128R	2058	C1173-0(2S)	2020	C1214A(2S)	2009	C1312G(2S)	2016	C1327TV	2016
C1060BY	2020	C1101A	2055	C1128S	2058	C1173-B	2020	C1214B(2S)	2009	C1312GN	2016	C1327U(2S)	2016
C1060C(2S)	2020	C1101A(TRANS)	2055	C1128Y	2058	C1173-C	2020	C1214C(2S)	2009	C1312H(2S)	2016	C1328(2S)	2016
C1060D(2S)	2020	C1101B	2055	C1129(2S)	2058	C1173-GR(2S)	2020	C1214D(2S)	2009	C1312J	2016	C1328T(2S)	2016
C1060E	2020	C1101B(TRANS)	2055	C1129-0	2058	C1173-O(2S)	2020	C1215(2S)	2016	C1312K	2016	C1328U(2S)	2016
C1060F	2020	C1101C(2S)	2055	C1129A	2058	C1173-R(2S)	2020	C1215C	2016	C1312L	2016	C1331(TRANS)	2016
C1060G	2020	C1101D(2S)	2055	C1129B	2058	C1173-Y(2S)	2020	C1215D	2016	C1312M	2016	C1335	2009
C1060GN	2020	C1101E(2S)	2055	C1129BL	2058	C1173A	2020	C1215E	2016	C1312OR	2016	C1335(TRANS)	2016
C1060H	2020	C1101F(2S)	2055	C1129C	2058	C1173B	2020	C1215F	2016	C1312R	2016	C1335-OR	2016
C1060J	2020	C1101G	2055	C1129G	2058	C1173GR	2020	C1215G	2016	C1312X	2016	C1335A	2016
C1060K	2020	C1101GN	2055	C1129M	2058	C1173R(2S)	2020	C1215GN	2016	C1312Y(2S)	2016	C1335A(TRANS)	2016
C1060L	2020	C1101H	2055	C1129R	2058	C1173X(2S)	2020	C1215H	2016	C1313(2S)	2016	C1335B	2016
C1060M	2020	C1101J	2055	C1129Y	2058	C1173XO	2020	C1215J	2016	C1313B	2016	C1335B(TRANS)	2016
C1060OR	2020	C1101K	2055	C1130	2055	C1173XY	2020	C1215K	2016	C1313Y(2S)	2016	C1335C(2S)	2016
C1060R	2020	C1101L(2S)	2055	C1132	2055	C1173Y	2020	C1215L	2016	C1317(2S)	2009	C1335D(2S)	2016
C1060X	2020	C1101M	2055	C1133	2055	C1175(2S)	2009	C1215M	2016	C1317-OR	2009	C1335E(2S)	2016
C1060Y	2020	C1101OR	2055	C1133D	2055	C1175C(2S)	2009	C1215OR	2016	C1317-R	2009	C1335F(2S)	2016
C1061	2020	C1101R	2055	C1150	2030	C1175CTV	2009	C1215R	2016	C1317A	2009	C1335G	2016
C1061(2S)	2020	C1101X	2055	C1150(TRANS)	2030	C1175D(2S)	2009	C1215X	2016	C1317BC	2009	C1335GN	2016
C1061-C	2020	C1101Y	2055	C1151	2055	C1175E(2S)	2009	C1215Y	2016	C1317C	2009	C1335H	2016
C1061A	2020	C1107	2020	C1151(TRANS)	2055	C1175F(2S)	2009	C1216	2058	C1317E	2009	C1335J	2016
C1061A(TRANS)	2020	C1107Q(2S)	2020	C1151A	2055	C1180	2016	C1218(2S)	2030	C1317G	2009	C1335K	2016
C1061B	2020	C1107YG	2020	C1151A(TRANS)	2055	C1182	2016	C1219	2009	C1317GR	2009	C1335L	2016
C1061B(TRANS)	2020	C1108	2020	C1153(2S)	2055	C1182B(2S)	2016	C1220	2009	C1317L	2009	C1335M	2016
C1061BM	2020	C1109	2020	C1153A	2055	C1182C(2S)	2016	C1220(TRANS)	2009	C1317NC	2009	C1335OR	2016
C1061C(2S)	2020	C1109(TRANS)	2020	C1166	2009	C1182D(2S)	2016	C1220-003	2009	C1317OR	2009	C1335R	2016
C1061D(2S)	2020	C1110	2020	C1166(TRANS)	2009	C1184(2S)	2055	C1220A(TRANS)	2009	C1317Q(2S)	2009	C1335X	2016
C1061K	2020	C1115(2S)	2041	C1166-GR	2009	C1184A(2S)	2055	C1220AP	2009	C1317R(2S)	2009	C1335Y	2016
C1061KA	2020	C1117	2016	C1166-O	2009	C1184B(2S)	2055	C1220AQ	2009	C1317S(2S)	2009	C1336(TRANS)	2016
C1061KB	2020	C1117A	2016	C1166-R	2009	C1184C(2S)	2055	C1220AR	2009	C1317T(2S)	2009	C1336JK	2016
C1061KC	2020	C1117B	2016	C1166-Y	2009	C1184D(2S)	2055	C1220E(2S)	2009	C1317V	2009	C1342(2S)	2016
C1061SC	2020	C1117C	2016	C1166A(TRANS)	2009	C1184E(2S)	2055	C1220P	2009	C1317Y	2009	C1342-OR	2016
C1061T(2S)	2020	C1117D	2016	C1166B(TRANS)	2009	C1187(2S)	2058	C1220Q	2009	C1318(2S)	2009	C1342A(2S)	2016
C1061TB(2S)	2020	C1117E	2016	C1166C	2009	C1187R(KOREA)	2058	C1220R	2009	C1318B	2009	C1342B(2S)	2016
C1066	2016	C1117F	2016	C1166E	2009	C1188	2058	C1222	2016	C1318C(2S)	2009	C1342C(2S)	2016
C1067	2016	C1117G	2016	C1166F	2009	C1189	2058	C1222(TRANS)	2016	C1318E	2009	C1342D	2016
C1069	2030	C1117GN	2016	C1166G	2009	C1189L	2058	C1222A	2016	C1318F	2009	C1342E	2016
C1070(2S)	2016	C1117H	2016	C1166GN	2009	C1204(2S)	2009	C1222A(TRANS)	2016	C1318G	2009	C1342F	2016
C1070-1	2016	C1117J	2016	C1166H	2009	C1204B(2S)	2009	C1222B	2016	C1318GN	2009	C1342G	2016
C1070-2	2016	C1117K	2016	C1166K	2009	C1204C(2S)	2009	C1222B(TRANS)	2016	C1318H	2009	C1342GN	2016
C1070-B	2016	C1117L	2016	C1166L	2009	C1204D(2S)	2009	C1222C(2S)	2016	C1318J	2009	C1342J	2016
C1071(2S)	1617	C1117M	2016	C1166M	2009	C1205(2S)	2009	C1222D(2S)	2016	C1318K	2009	C1342K	2016
C1072(2S)	2030	C1117OR	2016	C1166O(2S)	2009	C1205A(2S)	2009	C1222E	2016	C1318L	2009	C1342L	2016
C1072A(2S)	2030	C1117R	2016	C1166OR	2009	C1205B(2S)	2009	C1222H	2016	C1318M	2009	C1342M	2016
C1079(2S)	2041	C1117X	2016	C1166U	2009	C1205C(2S)	2009	C1222U	2016	C1318P	2009	C1342OR	2016
C1079-R	2041	C1117Y	2016	C1166Y(2S)	2009	C1206	2030	C1236	2058	C1318PR	2009	C1342R	2016
C1079-Y	2041	C1123(2S)	2009	C1167(2S)	2055	C1206B	2030	C1240	2058	C1318Q(2S)	2009	C1342X	2016
C1080(2S)	2041	C1123A	2009	C1170(2S)	2055	C1209(2S)	2009	C1244(2S)	2009	C1318QP	2009	C1342Y	2016
C1080-R	2041	C1123B	2009	C1170-OR	2055	C1209C(2S)	2009	C1246	2009	C1318QR	2009	C1343(2S)	2041
C1080-Y	2041	C1123C	2009	C1170A(2S)	2055	C1209D	2009	C1246A	2009	C1318R(2S)	2009	C1343-05	2041
C1080B	2041	C1123D	2009	C1170B(2S)	2055	C1209E	2009	C1246R	2009	C1318Y	2009	C1343B(2S)	2041
C1080LB	2041	C1123E	2009	C1170BFA-2	2055	C1210(2S)	2009	C1246S	2009	C1319	2016	C1343BL	2041
C1084	2058	C1123F	2009	C1170C	2055	C1210Y	2009	C1246T	2009	C1319C	2016	C1343D	2041
C1091A	2017	C1123GN	2009	C1170D	2055	C1211(2S)	2009	C1247	2009	C1320	2058	C1343E	2041
C1098(2S)	2017	C1123H	2009	C1170E	2055	C1213(2S)	2009	C1247A	2009	C1320A	2058	C1343F	2041
C1098(4)K	2017	C1123J	2009	C1170F	2055	C1213-OR	2009	C1247AF	2009	C1320B	2058	C1343G	2041
C1098(4)L	2017	C1123K	2009	C1170FA-2	2055	C1213A(2S)	2009	C1254	2016	C1320C	2058	C1343GN	2041
C1098-4K	2017	C1123L	2009	C1170G	2055	C1213A(JAPAN)	2009	C1266	2030	C1320D	2058	C1343G-R	2041
C1098-4L	2017	C1123M	2009	C1170GN	2055	C1213AA(2S)	2009	C1274	1617	C1320E	2058	C1343GR	2041
C1098-42M	2017	C1123OR	2009	C1170H	2055	C1213AB(2S)	2009	C1276	2016	C1320F	2058	C1343H(2S)	2041
C1098A(2S)	2017	C1123R	2009	C1170J	2055	C1213AC(2S)	2009	C1281	2009	C1320G	2058	C1343J	2041
C1098B(2S)	2017	C1123X	2009	C1170K	2055	C1213AD(2S)	2009	C1283	2009	C1320GN	2058	C1343K	2041
C1098C(2S)	2017	C1123Y	2009	C1170L	2055	C1213AK(2S)	2009	C1285	2009	C1320H	2058	C1343L	2041
C1098D(2S)	2017	C1126(2S)	2058	C1170M	2055	C1213AKB(2S)	2009	C1293	2016	C1320J	2058	C1343M	2041
C1098L(2S)	2017	C1126A	2058	C1170OR	2055	C1213AKC(2S)	2009	C1293A	2016	C1320K	2016	C1343O	2041
C1098M(2S)	2017	C1126B	2058	C1170R	2055	C1213AKD(2S)	2009	C1293B(2S)	2016	C1320L	2058	C1343OR	2041
C1099	2055	C1126E	2058	C1170X	2055	C1213B(2S)	2009	C1293C	2016	C1320M	2058	C1343R	2041
C1099K	2055	C1126F	2058	C1170Y	2055	C1213BC(2S)	2009	C1293D	2016	C1320OR	2058	C1343X	2041
C1100(TRANS)	2055	C1126GN	2058	C1171(2S)	2055	C1213C(2S)	2009	C1295(2S)	2055	C1320R	2058	C1343Y	2041
C1100A(TRANS)	2055	C1126J	2058	C1172(2S)	2055	C1213C(JAPAN)	2009	C1295-0	2055	C1320X	2058	C1344(2S)	2016
C1100B(TRANS)	2055	C1126K	2058	C1172A(2S)	2055	C1213CD(2S)	2009	C1295-O(2S)	2055	C1320Y	2058	C1344C(2S)	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C1344D(2S)	2016	C1398(2S)	2030	C1623L3	2016	C1684P	2009	C1815-0	2009	C19[illegible]	2009	C2120-0	2009
C1344E(2S)	2016	C1398P	2020	C1623L4	2016	C1684Q	2009	C1815-BL	2009	C1954	2016	C2120-O	2009
C1344F(2S)	2016	C1398Q(2S)	2020	C1623L5	2016	C1684R	2009	C1815-GR	2009	C1959	2009	C2120-Y	2009
C1345(2S)	2016	C1402(2S)	2041	C1623L6	2016	C1684S	2009	C1815-GRFA	2009	C1959-O	2009	C2120FA	2009
C1345C(2S)	2016	C1411	1617	C1623L7	2016	C1684T	2009	C1815-O	2009	C1959-O(KOREA)	2009	C2120Y	2009
C1345D	2016	C1413(2S)	2055	C1624	2020	C1685	2009	C1815-O(JAPAN)	2009	C1959-Y	2009	C2120Y(JAPAN)	2009
C1345E	2016	C1413A(2S)	2055	C1624-O	2020	C1685(TRANS)	2009	C1815-O(KOREA)	2009	C1959-YFA	2009	C2120Y(KOREA)	2009
C1345F(2S)	2016	C1413AH	2055	C1624-Y	2020	C1685-O	2009	C1815-OFA	2009	C1959GR	2009	C2120YFA	2009
C1345KD	2016	C1413B	2055	C1625	2020	C1685-P	2009	C1815-Y	2009	C1959Y	2009	C2123	2055
C1345KE	2016	C1413C	2055	C1625-0	2020	C1685-Q	2009	C1815-YFA	2009	C1959Y(JAPAN)	2009	C2153	2009
C1345KF	2016	C1413D	2055	C1625-O	2020	C1685-R	2009	C1815BL	2009	C1959Y(KOREA)	2009	C2190	2055
C1352	2009	C1413E	2055	C1625-Y	2020	C1685C	2009	C1815BL(KOREA)	2009	C1960	2009	C2206	2009
C1358(2S)	2055	C1413F	2055	C1625Y	2020	C1685CR	2009	C1815FA	2009	C1976	2009	C2206B	2009
C1358A	2055	C1413G	2055	C1625YLGH	2020	C1685P(2S)	2009	C1815G	2009	C1984	2068	C2206C	2009
C1358K(2S)	2055	C1413GN	2055	C1625YLGL1	2020	C1685Q(2S)	2009	C1815GR	2009	C1985	2020	C2206Q	2009
C1358K1	2055	C1413K	2055	C1626	2020	C1685Q(JAPAN)	2009	C1815GR(JAPAN)	2009	C1985(JAPAN)	2020	C2206R	2009
C1358K2	2055	C1413L	2055	C1626-O	2020	C1685QR	2009	C1815GR(KOREA)	2009	C1986	2020	C2210	2058
C1358K3	2055	C1413R	2055	C1626-Y	2020	C1685R	2009	C1815O	2009	C1989	2016	C2212	2016
C1358L	2055	C1413X	2055	C1626Y	2020	C1685S(2S)	2009	C1815Y	2009	C1990	2016	C2212A	2016
C1358M	2055	C1413Y	2055	C1627	2009	C1685T	2009	C1815Y(JAPAN)	2009	C1990B	2016	C2213	2016
C1359(2S)	2009	C1416(2S)	1617	C1627-O	2009	C1686(2S)	2058	C1815Y(KOREA)	2009	C1991	2009	C2215	2058
C1359A(2S)	2009	C1416A	1617	C1627-O(JAPAN)	2009	C1686B	2058	C181[illegible]	2041	C1992	1617	C2216	2009
C1359B(2S)	2009	C1417(2S)	2016	C1627-Y	2009	C1686V	2058	C1826	2020	C1993	1617	C2240	2041
C1359BC	2009	C1417C	2016	C1627-YFA	2009	C1687(2S)	2058	C1826(JAPAN)	2020	C1994	1617	C2261	2041
C1359C(2S)	2009	C1417D(1)	2016	C1627A	2009	C1688(2S)	2058	C1826-0	2020	C1995	1617	C2262	2041
C1359Q	2009	C1417D(U)	2016	C1627AY	2009	C1707AH	1617	C1826-O	2020	C1996	1617	C2263	2016
C1360(2S)	2016	C1417F(2S)	2016	C1627Y	2009	C1707AHB	1617	C1826-Y	2020	C1997	1617	C2274	2009
C1360A	2016	C1417V(2S)	2016	C1627Y(JAPAN)	2009	C1707H	1617	C1826D	2020	C1998	2009	C2274E(JAPAN)	2009
C1361(2S)	2009	C1417VF	2016	C1632	2009	C1707HB	1617	C1826G	2020	C1999	2016	C2274K	2009
C1362(2S)	2009	C1417VW(2S)	2016	C1633(2S)	2016	C1707HC	1617	C1826O	2020	C2000	2009	C2277	2009
C1362(47)	2009	C1417W(2S)	2016	C1634	2016	C1707HD	1617	C1826P	2020	C2000(2S)	2009	C2297	2020
C1363(2S)	2009	C1418(2S)	2020	C1635	2030	C1709	2009	C1826Q	2020	C2000L	2009	C2308	2009
C1364(2S)	2009	C1419(2S)	2020	C1636	2016	C1730	2016	C1826R	2020	C2001	2009	C2308B	2009
C1364-6	2009	C1419-C	2020	C1637	2016	C1730K	2016	C1826Y	2020	C2001-L	2009	C2309	2016
C1364-8	2009	C1419B(2S)	2020	C1639(2S)	1617	C1730L	2016	C1827	2020	C2001A	2009	C2309D	2016
C1364-OR	2009	C1419C(2S)	2020	C1641	1617	C1734	1617	C1833	2009	C2001F	2009	C2309E	2016
C1364A(2S)	2009	C1427	2058	C1641Q	1617	C1734H	1617	C1834	2009	C2001G	2009	C2309F	2016
C1364B	2009	C1428	2016	C1641R	1617	C1735	2009	C1840	2016	C2001I	2009	C2310	2009
C1364C	2009	C1438	2009	C1647	2016	C1739(2S)	1617	C1840E	2016	C2001K	2009	C2315	2020
C1364D	2009	C1439	2009	C1647Q	2016	C1740	2009	C1840F	2016	C2001K(JAPAN)	2009	C2320	2009
C1364E	2009	C1444	2020	C1647RY	2016	C1740C	2009	C1840P	2016	C2001L	2009	C2320(JAPAN)	2009
C1364H	2009	C1445	2020	C1648(2S)	2016	C1740D	2009	C1842	2016	C2001L1	2009	C2320L	2009
C1364K	2009	C1453	2016	C1648E	2016	C1740E(JAPAN)	2009	C1842E	2016	C2001M	2009	C2320LE(ECB)	2009
C1364L	2009	C1464	2055	C1648EF	2016	C1740[illegible]	2009	C1843	2016	C2002	2009	C2348	2058
C1364M	2009	C1467	2055	C1648SH	2016	C1740P	2009	C1844	2016	C2002K	2009	C2349	2016
C1364OR	2009	C1478	2058	C1652	2009	C1740Q	2009	C1849	2009	C2002L	2009	C2350	2020
C1364R	2009	C1478A	2058	C1667(2S)	2041	C1740QH	2009	C1850	2009	C2002L(JAPAN)	2009	C2352	2058
C1364X	2009	C1537(2S)	2016	C1674(2S)	2016	C1740QJ	2009	C1851	2009	C2002M	2009	C2362	2016
C1364Y	2009	C1537-0	2016	C1674AL	2016	C1740QR	2009	C1852	2009	C2003	2009	C2362G	2016
C1367(2S)	2035	C1537-O	2016	C1674K(2S)	2016	C1740R	2009	C1853	2009	C2009	2058	C2362H	2016
C1367A(2S)	2035	C1537B(2S)	2016	C1674L(2S)	2016	C1740R(JAPAN)	2009	C1853B	2009	C2012	2016	C2362K	2016
C1372	2009	C1538(2S)	2016	C1674L(JAPAN)	2016	C1740RE	2009	C1853C	2009	C2021	2016	C2363	2009
C1372Y(2S)	2009	C1538S(2S)	2016	C1674M(2S)	2016	C1740RH	2009	C1854	2009	C2021-Q	2016	C2365	2016
C1373	2016	C1538SA(2S)	2016	C1674R(KOREA)	2016	C1740RL	2009	C1854C	2009	C2021L	2016	C23[illegible]	2041
C1374	2016	C15[illegible]	2009	C1675(2S)	2009	C1740RM	2009	C1854[illegible]	2009	C2021Q	2016	C2406	1104
C1374H	2016	C1540	2009	C1675B	2009	C1740RN(JAPAN)	2009	C1854S	2009	C2021Q(JAPAN)	2016	C2406M	1104
C1375	2016	C1541	2009	C1675K(2S)	2009	C1740RS	2009	C1855	2058	C2021R	2016	C2458	2009
C1375H	2016	C1542(2S)	2016	C1675K(JAPAN)	2009	C1740S	2009	C1856	2058	C2021R(JAPAN)	2016	C2458-O	2009
C1376	2009	C1543	2058	C1675L(2S)	2009	C1740S(JAPAN)	2009	C1856-02	2058	C2021RJ	2016	C2458BL	2009
C1376H	2009	C1544	2009	C1675M(2S)	2009	C1740SRJ JAPAN)	2009	C1856M	2058	C2021RL(JAPAN)	2016	C2458GR	2009
C1380	1617	C1547(2S)	2016	C1681(TRANS)	2016	C1741	2009	C1857	2009	C2021RM(JAPAN)	2016	C2458Y	2009
C1380-BL	1617	C1553	2016	C1681-BL	2016	C1744A	2009	C1875	2055	C2021S	2016	C2458Y(JAPAN)	2009
C1380-GR	1617	C1570	2016	C1681-GR	2016	C1766	2009	C1875K	2055	C2021S1(JAPAN)	2016	C2471	2058
C1380A	1617	C1570FL	2016	C1681A(TRANS)	2016	C1766B	2009	C1875L	2055	C2021Y	2016	C2505	1104
C1380A-BL	1617	C1570GL	2016	C1681B	2016	C1769	2016	C1875R	2055	C2027	2055	C2506	1104
C1380A-GR	1617	C1570HL	2016	C1681B(TRANS)	2016	C1770	2009	C1881K	2068	C2035	2009	C2512	2058
C1385	1617	C1570LH	2016	C1681B6	2016	C1771	1617	C1894	2055	C2053	2009	C2519	2016
C1385H	1617	C1571G	2016	C1681BL(2S)	2016	C1773	2041	C1894K	2055	C2055	2009	C2545D	2016
C1386	2030	C1571H	2016	C1681C	2016	C1774	2009	C1894N	2055	C2057	2058	C2545E	2016
C1388	2030	C1574	2041	C1681F	2016	C1776	2009	C1895	2055	C2057-C	2058	C2545F	2016
C1390	2009	C1596	2009	C1681G	2016	C1777	2041	C1896	2055	C2057C	2058	C2549	2058
C1390A	2016	C1601	2058	C1681GN	2016	C1778	2058	C1897	2030	C2057D	2058	C25[illegible]	1617
C1390IW	2009	C1606	2017	C1681GR	2016	C1779	2058	C1898	2009	C2057E	2058	C2561	2016
C1390JX	2009	C1607	2009	C1681H	2016	C1780	2030	C1899	2009	C2057E1	2058	C2570	2016
C1390W(2S)	2009	C1621	2016	C1681J	2016	C1781	1617	C1906	2016	C2057F	2058	C2570A	2016
C1390WH(2S)	2009	C1621-0	2016	C1681K	2016	C1781H	1617	C1906(JAPAN)	2016	C2063	2016	C2575	2009
C1390WX(2S)	2009	C1621B2	2016	C1681L	2016	C1781HA	1617	C1907	2016	C2063P	2016	C2575L	2009
C1390X(2S)	2009	C1621B3	2016	C1681M	2016	C1781HB	1617	C1908	2058	C2069	1617	C2602	2016
C1390XK(2S)	2009	C1621B4	2016	C1681O	2016	C1781HC	1617	C1908E(2S)	2058	C2070	1617	C2603	2009
C1390YM(2S)	2009	C1622	2016	C1681OR	2016	C1788	2009	C1908H	2058	C2086	2009	C2603-E	2009
C1393(2S)	2055	C1622A	2016	C1681[illegible]	2016	C1788[illegible]	2009	C1919	2016	C2087	2009	C2603-F	2009
C1393K	2055	C1622D6	2016	C1681V	2016	C1789	2016	C1919C	2016	C2107	2009	C2603[illegible]	2009
C1393L	2058	C1622D7	2016	C1682	2016	C1801	2016	C1923	2058	C2107G3	2009	C2603[illegible]	2009
C1393M	2058	C1622D8	2016	C1682(TRANS)	2016	C1802	2016	C1923-0	2058	C2109	2009	C2634-RS	2016
C1394(2S)	2058	C1622O	2016	C1684(2S)	2009	C1802(TRANS)	2058	C1923-O	2030	C2110	2030	C2634NC	2016
C1395	2016	C1622Y	2016	C1684[illegible]	2009	C1813	1617	C1923A	2018	C2111(2S)	1617	C2634R	2016
C1396(2S)	2016	C1623	2016	C1684K	2009	C1815	2009	C1923[illegible]	2058	C2120	2009	C2634R(JAPAN)	2016

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
C2634R5	2016	C3800OR	2058	C6115	562	CA102RA	1114	CC102KA	1104	CD37A2	1104	CD4013BE	2413
C26345	2016	C3800P	1808	C6115A	562	CA102VA	1114	CC102MA	1104	CD62	561	CD4013BF	2413
C26345(JAPAN)	2016	C3800R	2058	C6118	563	CA124E	1711	CC102PA	1114	CD91	562	CD4013BMJ	2413
C2636	2016	C3800X	2058	C6118A	563	CA139AE	1712	CC102RA	1114	CD101	1123	CD4013BMW	2413
C2646	2016	C3800Y	2058	C6120	564	CA139F	1712	CC102VA	1114	CD753A	561	CD4017	2417
C2647	2058	C3854	2016	C6130P	1723	CA139G	1712	CC152AA	1114	CD759A	563	CD4017AD	2417
C2647C	2058	C3940	2058	C6131P	1723	CA150	1104	CC152BA	1114	CD821	561	CD4017AE	2417
C2669	2009	C3940A	2058	C6391	1101	CA152AA	1114	CC152CA	1114	CD821A	561	CD4017AF	2417
C2669-O(JAPAN)	2009	C3940B	2058	C6391A	1101	CA152BA	1114	CC152DA	1114	CD823	561	CD4017BCJ	2417
C2670	2009	C3940C	2058	C6644H(HEP)	2016	CA152CA	1114	CC152EA	1114	CD823A	561	CD4017BCN	2417
C2710	2009	C3940D	2058	C6690	2035	CA152DA	1114	CC152FA	1114	CD825	561	CD4017BD	2417
C2710-O	2009	C3940E	2058	C6691	2035	CA152EA	1114	CC152GA	1114	CD825A	561	CD4017BE	2417
C2710-Y	2009	C3940F	2058	C6692	2035	CA152FA	1114	CC152HA	1114	CD827	561	CD4017BF	2417
C2717	2058	C3940G	2058	C7076	2016	CA152GA	1114	CC152KA	1114	CD827A	561	CD4017BMJ	2417
C2717FA	2058	C3940GN	2058	C7400P	1801	CA152HA	1114	CC152MA	1114	CD829	561	CD4017BMW	2417
C2719	2009	C3940H	2058	C7400P(HEP)	1801	CA152KA	1114	CC152PA	1114	CD829A	561	CD4049AD	2449
C2719(JAPAN)	2009	C3940J	2058	C7401P	1801	CA152MA	1114	CC152RA	1114	CD963B	563	CD4049AE	2449
C2719L(JAPAN)	2009	C3940K	2058	C7401P(HEP)	1801	CA152PA	1114	CC152TA	1114	CD965B	564	CD4049AF	2449
C2720	2009	C3940L	2058	C7404P	1802	CA152RA	1114	CC152VA	1114	CD1111	1104	CD4049CJ	2449
C2724	2009	C3940M	2058	C7408P	1822	CA152TA	1114	CC1168F	1617	CD1112	1104	CD4049CN	2449
C2724-D	2009	C3940OR	2058	C7408P(HEP)	1822	CA152VA	1114	CCS9018F	2009	CD1113	1104	CD4049MJ	2449
C2724-E	2009	C3940R	2058	C7447AP	1805	CA200	1104	CCJ5212	2009	CD1114	1104	CD4049UBD	2449
C2785	2009	C3940X	2058	C7490AP	1808	CA224E	1711	CCS1235G	1617	CD1115	1104	CD4049UBE	2449
C2785(JAPAN)	2009	C3940Y	2058	C7490P(HEP)	1808	CA224G	1711	CCS2001H	2009	CD1116	1104	CD4049UBF	2449
C2785E	2009	C4011	561	C8290	2009	CA239	1712	CCS2004B	2016	CD1117	1104	CD4103	562
C2785F	2009	C4015	562	C9011E	2009	CA239A	1712	CCS2005B	2023	CD1121	1104	CD4106	563
C2785F(JAPAN)	2009	C4018	563	C9011F	2009	CA239AE	1712	CCS-2006D	2009	CD1122	1104	CD4109	564
C2785H	2009	C4020	564	C9011H	2009	CA239AG	1712	CCS2006D	2016	CD1123	1104	CD4116	563
C2785J	2009	C4033A	2058	C9014A	2009	CA239E	1712	CCS2008F015	2016	CD1124	1104	CD4117	563
C2785K	2009	C4033B	2058	C9014A(KOREA)	2009	CA239G	1712	CCS4004	1617	CD1125	1104	CD4118	563
C2786	2009	C4033C	2058	C9082	2023	CA250	1104	CCS6168	1617	CD1126	1104	CD4121	563
C2786L	2009	C4033D	2058	C9083	2023	CA324E	1711	CCS6168F	1617	CD1127	1104	CD4122	563
C2787	2016	C4033E	2058	C9084	2023	CA324G	1711	CCS6168G	2030	CD1141	1104	CD4627	561
C2818	2009	C4033F	2058	C9085	2023	CA339	1712	CCS6225F	2016	CD1142	1104	CD4735	561
C2818H	2009	C4033G	2058	C9426	2058	CA339A	1712	CCS6226G	2016	CD1143	1104	CD4739	562
C2839	2009	C4033GN	2058	C9634	2016	CA339AE	1712	CCS6227F	2016	CD1147	1104	CD4742	563
C2839-D	2009	C4033H	2058	C10110	1104	CA339AG	1712	CCS6228F	2023	CD1148	1104	CD4744	564
C2839D	2009	C4033J	2058	C10159	1104	CA339E	1712	CCS6229H	2030	CD1149	1104	CD4765	562
C2839E	2009	C4033K	2058	C10176	1104	CA339G	1712	CCS9016D	2016	CD1151	1104	CD4765A	562
C2840	2016	C4033L	2058	C10279-1	2016	CA555CE	1723	CCS9016E	2016	CD1224	1122	CD4766	562
C2840D	2016	C4033M	2058	C10279-3	1617	CA555CG	1723	CCS9017	2016	CD3122	565	CD4766A	562
C2884	2016	C4033OR	2058	C12712	2030	CA555E	1723	CCS9017G925	2016	CD4001	2401	CD4767	562
C2901	2009	C4033R	2058	C12923	2030	CA555G	1723	CCS9018E	1617	CD4001AD	2401	CD4767A	562
C2928	2055	C4033X	2058	C12924	2030	CA723CE	1740	CCS9018F	2016	CD4001AE	2401	CD4768	562
C2960	2009	C4033Y	2058	C12925	2009	CA723E	1740	CCS9018H924	2016	CD4001AF	2401	CD4770	562
C2960E	2009	C4116	2020	C12926	2030	CA741	007	CD-0000	1123	CD4001BCJ	2401	CD4770A	562
C2960F	2009	C4116A	2020	C13390	2009	CA741C	007	CD0000	1123	CD4001BCN	2401	CD4771	562
C2960G	2009	C4116B	2020	C13391	2009	CA741CE	007	CD-0000N	1123	CD4001BD	2401	CD4771A	562
C3000P	1801	C4116C	2020	C13391A	2009	CA741CG	007	CD000	1123	CD4001BE	2401	CD4772	562
C3001P	1801	C4116D	2020	C13392	2030	CA741CS	007	CD0014	1122	CD4001BF	2401	CD4772A	562
C3004P	1802	C4116E	2020	C13393	2030	CA741E	007	CD0014(MORSE)	1122	CD4001BMJ	2401	CD4773	562
C3114T(JAPAN)	2009	C4116F	2020	C13394	2030	CA741G	007	CD-0014N	1123	CD4001BMW	2401	CD4773A	562
C3141	1122	C4116G	2020	C13398	2030	CA1020A	1104	CD0014NA	1617	CD4001CJ	2401	CD5234B	561
C3142	1104	C4116GN	2020	C13901	1617	CA1458	038	CD0014NG	1617	CD4001CN	2401	CD5235B	561
C3143	1104	C4116H	2020	C14256	2009	CA1458E	038	CD0015N	1617	CD4001MJ	2401	CD5239B	562
C3144	1102	C4116J	2020	C21382	1104	CA1458F	038	CD-0021	1122	CD4001MW	2401	CD5242B	563
C3214	2055	C4116K	2020	C21383	562	CA1458G	038	CD0021	1617	CD4001UBD	2401	CD5245B	564
C3720	2058	C4116L	2020	C21480	1123	CA1458S	038	CD-0033	561	CD4001UBE	2401	CD5341B	561
C3720A	2058	C4116M	2020	C36578	2016	CA1558E	038	CD0033	561	CD4001UBF	2401	CD5346B	562
C3720B	2058	C4116OR	2020	C36579	2030	CA2002	703	CD0057	1122	CD4009AE	2449	CD5349B	563
C3720C	2058	C4116R	2020	C36580	1617	CA2002M	703	CD-05	1104	CD4009CJ	2449	CD5645	1122
C3720D	2058	C4116X	2020	C-36582	2035	CA2002V	703	CD05	1104	CD4009CN	2449	CD8000	1617
C3720F	2058	C4116Y	2020	C51909B	2023	CA2004	703	CD-07	1101	CD4011	2411	CD-8457	1104
C3720G	2058	C-4401	1122	C139000	2030	CA3741CE	007	CD07	1101	CD4011AD	2411	CD8457	1122
C3720GN	2058	C4558C	038	C139000A	2030	CA3741E	007	CD09	1104 N7	CD4011AE	2411	CD8547	1122
C3720H	2058	C5005	1123	C248507	1104	CA6664	1104	CD-2	1104	CD4011AF	2411	CD12000	1617
C3720J	2058	C5120	2017	C523383	2009	CA6665	1104	CD-2N	1104	CD4011BCJ	2411	CD13332	1104
C3720K	2058	C5130	2017	C530041-1	1104	CA7248	1104	CD-4	1104	CD4011BCN	2411	CD13333	1102
C3720L	2058	C5430OR	2058	C1107832P6	1101	CA8314	1104	CD-20	1122	CD4011BD	2411	CD13334	1102
C3720OR	2058	C6015	562	C2475078-3	2016	CAC5028A	2016	CD31-00006	565	CD4011BE	2411	CD13335	1104
C3720R	2058	C6015A	562	C2485076-3	2030	CB5	1104	CD31-00008	561	CD4011BF	2411	CD13336	1102
C3720X	2058	C6018	563	C2485077-2	2030	CB10	1104	CD31-00012	562	CD4011BMJ	2411	CD13337	1104
C3720Y	2058	C6018A	563	C2485078-1	2016	CB20	1104	CD31-00015	563	CD4011BMW	2411	CD13338	1102
C3800(TRANS)	2058	C6020	564	C2485079-1	2016	CB50	1104	CD31-00017	564	CD4011CJ	2411	CD13339	1102
C3800A(TRANS)	2058	C6020A	564	CA-092	562	CB100	1114	CD31-10365	564	CD4011CN	2411	CD-84857	1122
C3800B(TRANS)	2058	C6052P	007	CA10	1104	CB106	1123	CD31-12015	561	CD4011MJ	2411	CD86003	1122
C3800C	2058	C6052P(HEP)	007	CA20	1104	CB150	1104	CD31-12019	562	CD4011MW	2411	CD860011	1122
C3800D	2058	C6102P	038	CA50	1104	CB163	1123	CD31-12022	563	CD4011UBD	2411	CD860037	1122
C3800E	2058	C6102P(HEP)	038	CA-90	1123	CB200	1104	CD31-12024	564	CD4011UBE	2411	CD3122055	562
C3800F	2058	C6106	565	CA90	1122	CB246	1617	CD31-12039	562	CD4011UBF	2411	CDC86X7-5	1617
C3800G	2058	C6106A	565	CA100	1104	CB250	1104	CD32-12049	562	CD4013	2413	CDC430	1617
C3800GN	2058	C6107	565	CA102BA	1104	CB-393	1123	CD32-12052	563	CD4013AD	2413	CDC496	2023
C3800H	2058	C6107A	565	CA102DA	1104	CB393	1123	CD32-12054	564	CD4013AE	2413	CDC587	2030
C3800J	2058	C6109	561	CA102FA	1104	CC102BA	1104	CD-37	1122	CD4013AF	2413	CDC731	2035
C3800K	2058	C6109A	561	CA102HA	1104	CC102DA	1104	CD37	1122	CD4013BCJ	2413	CDC745	2030
C3800L	2058	C6113P	1771	CA102MA	1104	CC102FA	1104	CD-37A	1122	CD4013BCN	2413	CDC746	1617
C3800M	2058	C6114P	1772	CA102PA	1114	CC102HA	1104	CD37A	1122	CD4013BD	2413	CDC1201BC	1617

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
CDC2010	1617	CDQ10016	1617	CER71	1104	CFC12D5	563	CI3900A	1617	CM4013AE	2413	CP404	2041
CDC2010D	1617	CDQ10017	1617	CER71A	1104	CFC12D10	563	CI3901	1617	CM4017	2417	CP405	2041
CDC2510C-G	1617	CDQ10018	1617	CER71B	1104	CFC15D	564	CI4256	1617	CM4017AD	2417	CP406	2041
CDC4023A130	1617	CDQ10019	1617	CER71C	1104	CFC15D5	564	CI4424	1617	CM4017AE	2417	CP407	2041
CDC5000	2016	CDQ10020	1617	CER-71CA	1104	CFC15D10	564	CI4425	1617	CM4049	2449	CP408	2041
CDC5000-1B	2016	CDQ10021	1617	CER72	1114	CG1	1617	CIJ70645	1123	CM4049AD	2449	CP409	2030
CDC5008	2030	CDQ10022	1617	CER72A	1114	CG12-E	1123	CIL194	2058	CM4049AE	2449	CP701	2020
CDC5028A	2030	CDQ10023	1617	CER72B	1114	CG12E	1123	CIL194A	2058	CM7163	2009	CP702	2020
CDC5038A	2016	CDQ10024	1617	CER72C	1114	CG61H	1123	CIL194B	2058	CM8470	1104	CP704	2020
CDC5071A	2016	CDQ10025	1617	CER72D	1114	CG62H	1123	CIL195	2058	CMO770	2009	CP3212055	562
CDC5075B	2016	CDQ10026	1617	CER72F	1114	CG63H	1123	CIL511	2016	CN2484	2030	CQX21	036
CDC8000	1617	CDQ10027	1617	CER73	1114	CG64H	1123	CIL512	2016	CO6C	1104	CQY65	026
CDC-8000-1	2009	CDQ10028	1617	CER73A	1114	CG65H	1123	CIL513	2016	CO49	1104	CR/E	1104
CDC8000-1	2030	CDQ10032	1617	CER73B	1114	CG66H	1123	CIL521	2016	CO410V	1114	CR0000	1123
CDC8000-1B	1617	CDQ10033	2030	CER73C	1114	CG74H	1123	CIL522	2016	CO510	1114	CR02AM	1067
CDC8000-1C	2030	CDQ10035	1617	CER73D	1114	CG86H	1123	CIL523	2016	CO-14348	1770	CR02AM-1	1067
CDC8000-CM	2030	CDQ10036	1617	CER73F	1114	CGD462	1123	CIL-531	2009	COD1-6045	1104	CR02AM1	1067
CDC-8001	1617	CDQ10048	2030	CER500	1104	CGD591	1123	CIL531	2016	COD1-6046	1104	CR02AM-4	1067
CDC8002	2030	CDQ10051	2030	CER500A	1104	CGD685	1123	CIL-532	2009	COD1-6047	1104	CR02AM4	1067
CDC8002-1	2030	CDQ10052	2030	CER500B	1104	CGD1029	1123	CIL532	2016	COD1-6048	1104	CR02AN4	1067
CDC8011B	1617	CDQ10053	2030	CER500C	1104	CGE-60	2009	CIL533	2016	COD1531	1104	CR1-051C	1067
CDC8021	1617	CDQ10057	2030	CER670	1104	CGE-61	2009	CJ5201	1617	COD1532	1104	CR1-051CA	1067
CDC8054	1617	CDQ10058	2030	CER670A	1104	CGE-62	2016	CJ5202	1617	COD1533	1104	CR1-051CB	1067
CDC8201	2009	CDR-2	1104	CER670B	1104	CGE-66	2020	CJ5203	1617	COD1534	1104	CR1-101C	1067
CDC8457	1122	CDR-4	1104	CER670C	1104	CGE-69	2027	CJ-5206	1617	COD1535	1104	CR1-101CA	1067
CDC9000-1	2023	CDS-16B	1104	CER680	1104	CGE-500	1122	CJ5206	2009	COD1536	1104	CR1-201C	1067
CDC9000-1D	2023	CDZ-9V	562	CER680A	1104	CH119D	1104	CJ-5207	1617	COD1537	1114	CR1-201CA	1067
CDC9002-1C	2030	CDZ-C9V	562	CER680B	1104	CH302MA	1114	CJ5207	2009	COD1538	1114	CR3AMZ	1020
CDC9002-18	2030	CE0398/7839	1104	CER680C	1104	CH302PA	1114	CJ-5208	1617	COD1551	1104	CR3AMZ-8	1020
CDC10000-1E	2023	CE0398-7839	1144	CER690	1104	CH302RA	1114	CJ-5210	2030	COD1552	1104	CR3AMZ8	1020
CDC12000	2009	CE0495/7839	1123	CER690A	1104	CH753	561	CJ5210	2030	COD1553	1104	CR103A	1067
CDC12000-1C	1617	CE37	1122	CER690B	1104	CH757	562	CJ-5211	2009	COD1554	1104	CR103B	1067
CDC12018C	1617	CE401	1104	CER690C	1104	CH759	563	CJ5211	1617	COD1555	1104	CR103C	1020
CDC12030B	2016	CE402	1104	CER700	1104	CH821	561	CJ-5212	2009	COD1556	1104	CR103D	1020
CDC12077F	1617	CE403	1104	CER700A	1104	CH823	561	CJ5212	1617	COD1575	1104	CR103Y	1067
CDC12108	2009	CE404	1104	CER700B	1104	CH825	561	CJ5213	2030	COD1611	1104	CR103YY	1067
CDC12112C	2016	CE405	1104	CER700C	1104	CH827	561	CJ5214	2030	COD1612	1104	CR203A	1067
CDC12112D	2016	CE406	1104	CER710	1104	CH829	561	CJ5215	2030	COD1613	1104	CR203B	1067
CDC12112E	2016	CE407	1114	CER710A	1104	CH963	563	CK419	1617	COD1614	1104	CR203C	1020
CDC12112F	2016	CE408	1114	CER710B	1104	CH965	564	CK420	1617	COD1615	1104	CR203D	1020
CDC13000	2009	CE409	1114	CER710C	1104	CH4103	562	CK421	1617	COD1616	1104	CR203Y	1067
CDC-13000-1	1617	CE410	1114	CER720	1114	CH4106	563	CK422	1617	COD1617	1114	CR203YY	1067
CDC13000-1	2009	CE501	1104	CER720A	1114	CH4109	564	CK474	1617	COD1618	1114	CR353	1122
CDC13000-1B	1617	CE502	1104	CER720B	1114	CH4627	561	CK475	1617	COD11556	1104	CR801	1104
CDC13000-1C	1617	CE503	1104	CER720C	1114	CH4735	561	CK476	1617	COD15524	1104	CR951	1114
CDC13000-1D	2009	CE504	1104	CER730	1114	CH4739	562	CK477	1617	COD15534	1104	CR952	1114
CDC13000-18	1617	CE505	1104	CER730A	1114	CH4742	563	CK705	1123	COD15544	1104	CR953	1114
CDC13000C	2009	CE506	1104	CER730B	1114	CH4744	564	CK-706	1123	COD15564	1104	CR954	1114
CDC13016A	1617	CE507	1114	CER730C	1114	CH5234	561	CK706	1123	COD16047	1104	CR955	1114
CDC13019B	2009	CE508	1114	CF-092	562	CH5239	562	CK706-P	1123	CODI537	1114	CR956	563
CDC13500-1	1617	CE509	1114	CF102DA	1104	CH5242	563	CK706A	1123	CODI538	1114	CR1034	1104
CDC15018	2009	CE510	1114	CF102PA	1114	CH5245	564	CK706P	1123	CODI617	1114	CR1035	1104
CDC25100-6	1617	CE4001B	2009	CF102RA	1114	CHA4Z5.1	565	CK715	1123	CODI1531	1104	CRD821	561
CDC25100-G	2016	CE4001C	2009	CF102VA	1114	CHAZ6.2	561	CK942	2023	CODI6045	1104	CRD823	561
CDC60132	2009	CE4003D	2030	CF152AA	1114	CHAZ6.2A	561	CL05	1104	CODI6047	1104	CRD825	561
CDC120700	2030	CE4003E	2009	CF152BA	1114	CHAZ62.A	561	CL010	1104	CODI11556	1104	CRD827	561
CDC4306813	1617	CE4004C	2009	CF152DA	1114	CHMZ5.1	565	CL025	1104	CODI15524	1104	CRD829	561
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CDG00	1122	CE4008B	2058	CF152HA	1114	CI2712	1617	CL1.5	1104	CODI15544	1104	CRD923	561
CDG005	1104	CE4008C	2058	CF152KA	1114	CI2713	1617	CL2	1104	CODI15564	1104	CRD925	561
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CDG-21	1122	CE4008E	2058	CF152PA	1114	CI2923	1617	CL4	1104	CP102BA	1104	CS11C	1067
CDG21	1122	CE4010D	2016	CF152RA	1114	CI2924	1617	CL5	1104	CP102DA	1104	CS-16E	1104
CDG-22	1122	CE4010E	2016	CF152VA	1114	CI2925	1617	CL6	1104	CP102FA	1104	CS16E	1104
CDG22	1122	CE4012D	2023	CF-1295H	2030	CI2926	1617	CL7	1104	CP102HA	1104	CS360	1617
CDG-24	1122	CE4013E	2009	CFA9.1D	562	CI3390	1617	CL8	1104	CP102KA	1104	CS-460B	1617
CDG24	1122	CEC6050	1104	CFA9.1D5	562	CI3391	1617	CL166C	1617	CP102MA	1104	CS-461B	2016
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CDG27	1122	CER67	1104	CFA12D	563	CI3392	1617	CL166D	1617	CP102RA	1114	CS697	1617
CDJ-00	1122	CER67A	1104	CFA12D5	563	CI3393	1617	CLEAK-05401	2068	CP102VA	1114	CS706	1617
CDK-4	1104	CER67B	1104	CFA12D10	563	CI3394	1617	CLM05	1104	CP103	1114	CS718	1617
CDQ1018	2009	CER67C	1104	CFA15D	564	CI3395	1617	CLM1	1104	CP152AA	1114	CS718A	1617
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CDQ10003	1617	CER68C	1104	CFB9.1D10	562	CI3403	1617	CM4-284B-2	041	CP152FA	1114	CS925M	1617
CDQ10004	1617	CER-69	1104	CFB12D	563	CI3404	1617	CM-12	1122	CP152GA	1114	CS929	2016
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CDQ10006	1617	CER69A	1104	CFB12D10	563	CI3414	2009	CM4001AD	2401	CP152KA	1114	CS956	2030
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CDQ10014	2030	CER-71	1104	CFC12D	563	CI3900	1617	CM4013AD	2413	CP401	2041	CS1018	2016

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CT12-1A	1000

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CXL186	2017	CZ936A	562	CZF6.2D	561	D-1SS133	1122	D10B1055	2016	D28D7	2020	D34J2	2023
CXL196	2020	CZ936B	562	CZF6.2D5	561	D1Y	2016	D10G1051	2016	D28D8	2017	D34J4	2023
CXL199	2016	CZ937	562	CZF6.2D10	561	D1Z	564	D10G1052	2016	D28D10	2020	D34J5	2023
CXL223	2041	CZ937A	562	CZF9.1D	562	D1ZBLU	564	D11C1B1	2030	D28E	2020	D38H1	2009
CXL238	2055	CZ937B	562	CZF9.1D5	562	D1ZYEL	564	D11C1F1	2009	D28E(2S)	2020	D38H1-6	2009
CXL519	1122	CZ938	562	CZF9.1D10	562	D-2	1123	D11C2D1B20	2009	D28F	2020	D38H2	2009
CXL5009	565	CZ938A	562	CZF12D	563	D2-1	1104	D11C3B1	2030	D28F00BB4C	1104	D38H3	2009
CXL5010	565	CZ938B	562	CZF12D5	563	D2B000RH10	1104	D11C5B1	2030	D28F00BB40	1104	D38S1	2009
CXL5013	561	CZ939	562	CZF12D10	563	D2B000RU20	1104	D11C5F1	2009	D28F30DF20	1114	D38S5	2009
CXL5017	562	CZ939A	562	CZG4.7D	565	D2BF00RU20	1104	D11C7B1	2030	D28G	2020	D38S8	2009
CXL5018	562	CZ939B	562	CZG4.7D5	565	D2BFMI15MR	1104 N1	D11C10B1	2030	D28G10E100	1114	D38S9	2009
CXL5021	563	CZ4565	561	CZG4.7D10	565	D2BFMI15MS	1104 N2	D11C11B1	2030	D28GN	2020	D38Y1-3	2009
CXL5024	564	CZ4565A	561	CZG5.1D	565	D2G	563	D13TDS442X	1122	D28H	2020	D39J1	2023
CXL5069	565	CZ4566	561	CZG5.1D5	565	D2G-1	563	D13TGMA010	1122	D28J	2020	D39J1-6	2009
CXL5069	565	CZ4566A	561	CZG5.1D10	565	D2G-2	563	D15A	1104	D28K	2020	D39J2	2023
CXL5070	561	CZ4567	561	CZG6.2D	561	D2G-3	563	D15C	1104	D28L	2020	D39J3	2023
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CXL5400	1067	CZ4568	561	CZG6.2D10	561	D2H	1104	D16E9	1617	D28OR	2020	D39J5	2023
CXL5401	1067	CZ4568A	561	CZG9.1D	562	D2J	1104	D16EC18	1617	D28R	2020	D39J6	2023
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CXL5403	1067	CZ4569A	561	CZG9.1D10	562	D2L0TVR06G	1104	D16K1	2016	D28X	2020	D40E7	2017
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CXL5453	1067	CZ4571	561	CZG12D10	563	D2R38	1617	D16K4	2016	D29A	2020	D42C3	2017
CXL5454	1067	CZ4571A	561	D004	1104	D2T2904	2023	D18	1104	D29A4	2023	D42C4	2017
CXL5455	1067	CZ4572	561	D006	2016	D2T2904A	2023	D22N	1114	D29A5	2023	D42C5	2017
CXL5456	1020	CZ4572A	561	D009	2058	D2T2905	2023	D23F130TAL	1104	D29A6	2023	D42C6	2017
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D235C	2020
D235D(2S)	2020
D235E	2020
D235F	2020
D235G(2S)	2020
D235GN	2020
D235G-O	2020
D235G-R	2020
D235G-Y	2020
D235H	2020
D235J	2020
D235L	2020
D235LBY	2020
D235M	2020
D235O	2020
D235OR	2020

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D235R(2S)	2020
D235RED	2020
D235RY	2020
D235X	2020
D235Y(2S)	2020
D236(RECT.)	1171
D241	2020
D242(2S)	2020
D242YLC	2020
D243(2S)	2020
D244	2020
D256	2020
D257(2S)	2020
D258	2020
D259	2020
D288(2S)	2020
D288A(2S)	2020
D288B(2S)	2020
D288C(2S)	2020
D288K	2020
D288L(2S)	2020
D289(2S)	2020
D289A(2S)	2020
D289B(2S)	2020
D289C(2S)	2020
D292	2020
D292(CHAN.MASTER)	2016
D292-0	2020
D292A	2020
D292B	2020
D292BL	2020
D292C	2020
D292D	2020
D292E	2020
D292F	2020
D292G	2020
D292GA	2020
D292GN	2020
D292H	2020
D292J	2020
D292K	2020
D292L	2020
D292M	2020
D292OR	2020
D292R	2020
D292X	2020
D292Y	2020
D312(2S)	2055
D312A	2055
D312B	2055
D312C	2055
D312D	2055
D312E	2055
D312F	2055
D312G	2055
D312GN	2055
D312H	2055
D312J	2055
D312K	2055
D312L	2055
D312M	2055
D312X	2055
D312Y	2055
D313	2020
D313(JAPAN)	2020
D313A	2020
D313B	2020
D313C(2S)	2020
D313D(2S)	2020
D313DE	2020
D313E	2020
D313F(2S)	2020
D313G	2020
D313GN	2020
D313H	2020
D313L	2020
D313M	2020
D313N	2020
D313R	2020
D313Y	2020
D314	2020
D314A	2020
D314B	2020
D314C	2020
D314D	2020
D314E	2020

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D314GN	2020	D342D	2020	D416(TRANS)	2055	D637-O	2016	D836Q	2068	D1136C(JAPAN)	2020	DA-203Y	1122 N3
D314H	2020	D342H	2020	D418(2S)	2055	D637-P	2016	D836R	2068	D1172S	1104	DA-204X	1122 N3
D314L	2020	D343J	2020	D419	2068	D637-Q	2016	D837	2068	D1177	2035	DA-204Y	1122 N3
D314M	2020	D343K	2020	D425(2S)	2041	D637-Q(JAPAN)	2016	D837A	2068	D1178	2035	DA205	1122
D314N	2020	D344	2020	D425-O	2041	D637-QR	2016	D837AB	2068	D1181	2035	DA1500	1104
D314R	2020	D345	2020	D425-R	2041	D637-R	2016	D837AD	2068	D1183	2055	DA1703	1101
D314Y	2020	D346	2020	D425O	2041	D637-R(JAPAN)	2016	D837AQ	2068	D1184	2055	DA1704	1101
D315(2S)	2020	D347	2020	D426	2041	D637C	2016	D837AR	2068	D1185	2055	DA2068	1114
D315C	2020	D348	2055	D426-O	2041	D637CR	2016	D837B	2068	D1186	2055	DAAY001002	1123
D315D	2020	D350	2055	D426-R	2041	D637O	2016	D837LB	2068	D1206Q	2016	DAAY002001	1104
D315E	2020	D350A	2055	D427	2041	D637P	2016	D837O	2068	D1266R	2016	DAAY003002	1123
D316	2041	D350Q(2S)	2055	D427-O	2041	D637PQR	2016	D837P	2068	D1266P(JAPAN)	2020	DAAY004001	1123
D316-1	2041	D350T	2055	D427-R	2041	D637Q	2016	D837Q	2068	D1266Q	2020	DAAY010092	562
D316-2	2041	D356	2020	D421(IR)	1104	D637Q(JAPAN)	2016	D837R	2068	D1274-AP	2068	DAJ201	1122 N2
D317(2S)	2020	D356C	2020	D460	2068	D637QR	2016	D843	2020	D1274-LB	2068	DAN201	1122 N2
D317A(2S)	2020	D356D	2020	D467	2009	D637R	2016	D849	2055	D1276A	2068	DAN201VA	1122 N2
D317AF	2020	D356E	2020	D467-C	2009	D637S	2016	D856	2020	D1276AP	2068	DAN207-100	1102 N2
D317AP	2020	D357	2020	D467B	2009	D637T	2016	D856A	2020	D1276B	2068	DAN207-200	1102 N2
D317F(2S)	2020	D357C	2020	D467C	2009	D638	2030	D856B	2020	D1276LB	2068	DAN207-400	1102 N2
D317P(2S)	2020	D357D	2020	D467C(JAPAN)	2009	D638-R	2030	D856L	2020	D1276P	2068	DAN208-100	1104 N2
D318(2S)	2020	D357E	2020	D469	2041	D638P	2030	D856LB	2020	D1277B	2068	DAN208-200	1114 N2
D318-O	2020	D358	2020	D474K	2016	D638Q	2030	D856M	2020	D1277B(JAPAN)	2068	DAN211	1104 N2
D318A(2S)	2020	D358C	2020	D475	2020	D638R	2030	D856MLB	2020	D1301	2035	DAN200600	1123
D318B	2020	D358D	2020	D475A	2020	D638S	2030	D856O	2020	D1302	2035	DAN2006000	1123
D318P	2020	D358E	2020	D476	2020	D639	2030	D856P	2020	D1303	2035	DAN2006000C	1123
D318Q	2020	D359(2S)	2020	D476A	2020	D639P	2030	D856Q	2020	D1318	2030	DAP201	1122 N1
D322(2S)	2041	D359C(2S)	2020	D476AKB	2020	D639Q	2030	D856R	2020	D1406	2020	DAP201VA	1122 N2
D322A(2S)	2041	D359C2(2S)	2020	D476AKC	2020	D639R	2030	D857	2020	D1406-Y	2020	DAP207-100	1104 N1
D322B(2S)	2041	D359D(2S)	2020	D476B	2020	D639S	2030	D857A	2020	D1406GR	2020	DAP207-200	1104 N1
D322C(2S)	2041	D359D1(2S)	2020	D476C	2020	D639T	2030	D857B	2020	D1406Y(JAPAN)	2020	DAP207-400	1104 N1
D323(2S)	2041	D359D2(2S)	2020	D476D	2020	D649	2055	D864K	2068	D1420	2035	DAP208-100	1104 N1
D323A(2S)	2041	D360(2S)	2020	D476G	2020	D649Q	2055	D866	2020	D1421	2035	DAP208-200	1114 N1
D323B(2S)	2041	D360D(2S)	2020	D476KB	2020	D654	2030	D866A	2020	D1445	1104	DAP211	1104 N1
D323C(2S)	2041	D360E(2S)	2020	D476KC	2020	D655D(JAPAN)	1617	D866B	2020	D1666	2016	DAS1158800	1122
D325(2S)	2017	D361	2020	D476O	2020	D661	2016	D866D	2020	D1894	2035	DB107	1104
D325-1	2017	D361C	2020	D476YL	2020	D661-R(JAPAN)	2016	D866P	2020	D2340	2020	DB204	1103
D325-OR	2017	D361D	2020	D477	2020	D6615	2016	D866Q	2020	D2350	2020	DB206	1104
D325A	2017	D365	2020	D492	2041	D661T	2016	D866R	2020	D2600EF	1104	DB208	1114
D325B	2017	D365A	2020	D500	1104	D664	2068	D867	2041	D3436	1104	DB210	1114
D325C(2S)	2017	D365B	2020	D513	2020	D671	2009	D878	2041	D4011BC	2411	DBA10B	1171
D325D(2S)	2017	D365H(2S)	2020	D517	2055	D686	2068	D880	2020	D4013BC	2413	DBA10E	1173
D325E(2S)	2017	D365F	2020	D522	2041	D687	2068	D880GR	2020	D4017BC	2417	DBBY007004	2020
D325F(2S)	2017	D366	2020	D525	2020	D691	2068	D880Y	2020	D4049UBC	2449	DBCZ027300	2016
D325G	2017	D366A	2020	D525 O	2020	D704	2020	D880Y(JAPAN)	2020	D4150	2041	DBCZ029404	2058
D325GN	2017	D368(2S)	2055	D525-Y	2020	D704D	2020	D880Y(KOREA)	2020	D6462	1122	DBCZ072304	2016
D325H	2017	D370	2041	D525R	2020	D704E	2020	D886	2020	D6623	1104	DBCZ073503	2009
D325J	2017	D379(2S)	2041	D525Y	2020	D721	2068	D886A	2020	D6623A	1104	DBCZ073504	2009
D325K	2017	D380(2S)	2055	D526	2020	D723	2020	D886F	2020	D6624	1104	DBCZ083905	2009
D325L	2017	D380A	2055	D526-O	2020	D725	2055	D886P	2020	D6624A	1104	DBCZ083906	1617
D325M	2017	D381	2020	D531	2020	D725-06	2055	D886Q	2020	D6625	1104	DBCZ094504	2016
D325OR	2017	D381K	2020	D544	2020	D726	2020	D889	2016	D6625A	1104	DBCZ136406	1617
D325R	2017	D381L	2020	D560	2068	D734	2009	D889Q	2016	D6726	1122	DBCZ373000	2016
D325X	2017	D381M	2020	D570	2020	D734-NP	2009	D899	2016	D8418	1122	DC	1104 N2
D325Y	2017	D383(2S)	2020	D575	2055	D734E	2009	D899T	2016	D9634	2016	DC-13	1123
D327(2S)	2009	D385	2060	D575L	2055	D734F	2009	D918	2020	D10167	1104	DC8457	1122
D327-V	2009	D389(2S)	2020	D577	2055	D734G	2009	D919	2009	D10168	1104	DCA25B	1114 N2
D327A(2S)	2009	D389 0	2020	D581	2041	D743	2020	D940W01120	563	D20000BB40	1104	DCA25C	1114 N2
D327B(2S)	2009	D389-O(2S)	2020	D581A	2041	D743A	2020	D959LB	2020	D21489	1104	DCA25E	1114 N2
D327C(2S)	2009	D389A(2S)	2020	D582	2041	D743R	2020	D959Q	2020	D24000V09G	1104	DCB25B	1114 N1
D327D(2S)	2009	D389AF	2020	D582A	2041	D762	2020	D960	2020	D28000BB40	1104	DCB25C	1114 N1
D327E(2S)	2009	D389AF0	2020	D589	2055	D762-O(JAPAN)	2020	D960Q(JAPAN)	2020	D92004R7B0	565	DCB25E	1114 N1
D327F(2S)	2009	D389AFO	2020	D590	2020	D762P	2020	D969	2030	D92004R7B1	565	DCD015	1122 N1
D327L	2009	D389AFP(2S)	2020	D591	2016	D762P(JAPAN)	2020	D1000	1114	D92005R1B0	563	DCE015	1122 N1
D327OR	2009	D389AD	2020	D591R	2016	D762Q	2020	D1010	2016	D93004R70X	565	DCE812-81	1104
D327R	2009	D389AP	2020	D592	2009	D767R	2009	D1010S	2016	D93004R70Z	565	DCV6	1114
D328(2S)	2030	D389AQ	2020	D592ANC	2009	D778	2009	D1012	2009	D93005R10X	565	DD-000	1104
D328S(2S)	2030	D389BLB	2020	D592NC	2009	D778Q	2009	D1012F	2009	D97006R20B	561	DD000	1101
D330	2020	D389BLB O	2020	D592R	2009	D778R	2009	D1012G1	2009	D101167	1104	DD-003	1104
D330D(2S)	2020	D389BLB-P	2020	D599	2016	D783	2055	D1022	2068	D230130TAL	1104	DD003	1104
D330E	2020	D389BP	2020	D603	2009	D792	2055	D1024	2068	D280010D40	1114	DD-006	1104
D331	2020	D389L	2020	D613	2020	D792S	2055	D1044A	2068	D92001200B1	563	DD006	1104
D334(2S)	2041	D389LB(2S)	2020	D613P	2020	D792T	2055	D1060K	2041	D92001200X	563	DD-007	1104
D334A(2S)	2041	D389LBP	2020	D633	2068	D800	1114	D1061	2020	D92001200Y	563	DD007	1104
D334R(2S)	2041	D389LP	2020	D634	2068	D804	2020	D1090-42M	2017	D93011201B	563	DD05	1101
D339	2041	D389P	2020	D635	2068	D804H	2020	D1101	2035	DA000	1104	DD05(IR)	1101
D339-1	2041	D389Q	2020	D636	2009	D804HLB	2020	D1102	2035	DA001	1104	DD06	1101
D339-2	2041	D389R	2020	D636-0	2009	D804HP	2020	D1103	2055	DA002	1104	DD06(IR)	1101
D340	2041	D390	2020	D636-O	2009	D807	2055	D1131B	2020	DA058	1114	DD07(IR)	1101
D340-1	2041	D390A	2020	D636-Q(JAPAN)	2009	D807M	2055	D1131C	2020	DA90	1123	DD056	1104
D340-2	2041	D390P	2020	D636-R	2009	D820	2055	D1131D	2020	DA101	1122	DD058	1114
D341(2S)	2041	D390Q	2020	D636-R(JAPAN)	2009	D820-1(JAPAN)	2055	D1132B	2020	DA101A	1122	DD15954	1122
D341H(2S)	2041	D392	2009	D636P	2009	D821	2055	D1132C	2020	DA101B	1122	DD10A	1114
D342(2S)	2020	D394	2055	D636Q	2009	D822	2055	D1132D	2020	DA102	1122	DD175C	1104
D343(2S)	2020	D404	2020	D636R	2009	D822P	2055	D1133B	2020	DA102A	1122	DD176C	1104
D343A	2020	D404G	2020	D636S	2009	D822Q	2055	D1133C	2020	DA102B	1122	DD177C	1104
D343B	2020	D405(2S)	2068	D636T	2009	D836	2068	D1135(JAPAN)	2020	DA202	1122 N3	DD236	1104
D343C	2020	D409	2068	D637	2016	D836A	2068	D1135-1(JAPAN)	2020	DA-202X	1122 N3	DD266	1104

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DNRD6.2E-B2(,GEA6.2(E)B2	561
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DO87	2016
DO88	2016
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DP100	1114
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DR100	1104
DR128	1123
DR200	1104
DR202	1104
DR204	1103
DR206	1104
DR207	1123
DR208	1114
DR209	1122
DR210	1114
DR213	1123
DR283	1123
DR291	1123
DR300	1104
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DR303	1123
DR307	1123
DR314	1123
DR318	1123
DR319	1123
DR326	1123
DR327	1122
DR329	1123
DR330	1123
DR338	1123
DR351	1123
DR352	1123
DR365	1123
DR366	1123
DR385	1123
DR389	1123
DR400	1104
DR426	1123
DR427	1104
DR434	1123
DR435	1101
DR449	1123
DR463	1123
DR464	1123
DR500	1104
DR600	1104
DR664	1122
DR668	1104
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DR5102	1104
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DS-16(SEARS-DIODE)	1104
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DS16A	1104
DS-16A(SANYO)	1114
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DS16B	1104
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DS-16B(SYLVANIA)	1104
DS16C	1104
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DS16D	1104
DS-16D(SANYO)	1104
DS-16E	1104
DS16E	1104
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DS16NA	1114
DS16NB	1104
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DS-16ND	1104
DS16ND	1104
DS-16NE	1104
DS16NE	1104
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DS17(ADMIRAL)	1104
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DS18	1101
DS-18(GE)	1104
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DS18(SEARS)	1104
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DS19	1102
DS-19(RECTIFIER)	1104
DS-19(SANYO)	1104
DS-27	1123
DS27	1123
DS31	1122
DS31(DELCO)	1123
DS-32	1123
DS32	1123
DS-33	1123
DS33	1123
DS33(DELCO)	1123
DS-38	1122
DS38(SANYO)	1104
DS-39	1123
DS39	1123
DS-43	562
DS43	562
DS-44	2009
DS44	1617
DS-45	2009
DS45	1617
DS-46	2009
DS46	1617
DS-47	1617
DS47	1617
DS48	562
DS58(SANYO)	1104
DS-66	1617
DS66	1617
DS-66W	2009
DS-67	1617
DS67	1617
DS-67W	2009
DS67W	1617
DS-71	2016
DS71	2016
DS-72	2016
DS72	2016
DS-73	2016
DS73	2016
DS-74	2016
DS74	2016
DS-75	2009
DS75	2016
DS-76	1617
DS76	1617
DS-77	2009
DS77	1617
DS-78	2016
DS78	2016
DS-79	1104
DS79	1104
DS-79(DELCO)	1104
DS-80	1104
DS80	1104
DS-81	2058
DS81	2016
DS-82	2023
DS82	2023
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DS83	2023
DS-85	2016
DS85	2016
DS-88	2035
DS88	2035
DS-94	2009
DS-97	1122
DS97	1122
DS97(DELCO)	1122
DS99	562
DS104	1122
DS-107	565
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DS118A	1143
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DS131	1104
DS-131A	1104
DS131A	1104
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DS1[illegible]	1104	DSF10B	1104	DX0101CE	1104	DYDAP201VA	1122 N2	E102	2062	E1720R	1114	EA15X55	2016
DS150	1114	DSF10C	1102	DX0105TA	1104	DYMTZ5.1-[illegible](,MTZ5.1(B))		E102(ELCOM)	1104	E1725RM	1104	EA15X55P	2016
DS150A	1114	DSF10E	1103	DX0110CE	1103		565	E103	2035	E1750Z	561	EA15X56	1617
DS1[illegible]	1114	DSF10G	1104	DX0115CE	1104	DYMTZ5.1-C	565	E104(ELCOM)	1104	E1775R	1122	EA15X56CL	2020
DS1[illegible]C	1114	[illegible]	1104	DX0123CE	1104	DYMTZ6.2-C	561	E108	1114	E1786R	1104	EA15X57	2030
DS159	561	DSS953	1122	DX0125CE	1104	DYMTZ9.1-C	562	E108(ELCOM)	1114	E1789R	1102	EA15X58	1617
DS160(G.E.)	1104	DSS16685	1123	DX0126CE	1104	DZ9A4	2023	E125C200	1104	E1791R	1104	EA15X59	1617
DS230B	1104	DSZ3009	562	DX0128CE	1114	DZ-12	563	E135	1104	E1791R(,ERB43-04)	1104	EA15X60	2009
DS330A	1104	DSZ3012	563	DX0130CE	1104	DZ-12A	563	E143	1104	E1794R	1104	EA15X63	1617
DS330B	1104	DT161	1617	DX0131CE	1104	DZ12A	563	E146	1104	E1794R(,C44-04)	1104	EA15X63CL	2009
DS-410	1122	DT230A	1122	DX0142CE	1122	DZ-15A	564	E150L	1104	E1829R	1114	EA15X68	1617
DS410	1122	DT230F	1122	DX0153CE	1104	DZ15A	564	E-1[illegible]B121712	2030	E1852	563	EA15X72	1617
DS-410(AMPEX)	1122	DT230G	1122	DX0154CE	1102	DZB6.2	561	E201	2035	E2430	1617	EA15X73	1617
DS410(COURIER)	1122	DT1110	2030	DX0155CE	1102	DZB9.1	562	E202	1114	E2431	1617	EA15X75	1617
DS410(EMERSON)	1122	DT1111	2030	DX-0156	1123	DZB12	563	E202(ELCOM)	1114	E2434	2016	EA15X75CL	2009
DS410(FANON)	1122	DT1112	2030	DX-0161	1123	DZB12C	563	E203	2035	E2435	2016	EA15X76	1617
DS410(G.E.)	1123	DT1120	2030	DX-0162	1123	DZB15	564	E210	2009	E2436	1617	EA15X76CL	2009
DS-410(MOTOROLA)		DT1121	2030	DX0181CE	1104	E0018	1123	E211	2062	E2441	2030	EA15X77	1617
	1617	DT1122	2030	DX0202CE	1104	E09-306112	1122	E212	2009	E2444	1617	EA15X77CL	2009
DS410(OLYMPIC)	1122	DT1311	2030	DX0204CE	1122 N3	E-075L	1104	E213	2023	E2449	2030	EA15X83	1617
DS410(WESTINGHOUSE)		DT1321	2030	DX0206	1104	E075L	1104	E230	2035	E2452	1617	EA15X84	1617
	1122	DT1510	2030	DX0220CE	1102	E0100AD	1067	E231	2035	E2454	1617	EA15X84CL	2009
DS410R	1122	DT1511	2030	DX-0241	1123	E0100FD	1067	E262	563	E2455	1617	EA15X85	1617
DS410R(G.E.)	1123	DT1512	2030	DX0248CE	1104	E0100YD	1067	E295ZZ0[illegible]	1123	E2459	1617	EA15X85CL	2009
DS-430	1104	DT1520	2030	DX-0253	1123	E0102AA	1067	E300	2035	E2461	1617	EA15X86	1617
DS430	1104	DT1521	2030	DX-0255	1122	E0102AB	1067	E300L	1104	E2484	1123	EA15X90	2009
DS441	1122	DT1522	2030	DX-0270	1122	E0102AD	1067	E302(ELCOM)	1143	E2486	561	EA15X91	1617
DS-442	1122	DT1610	1617	DX-0273	1122	E0102FA	1067	E304	2035	E2496	2020	EA15X94	2016
DS442	1122	DT1621	2030	DX-0287	1122	E0102FB	1067	E304(ELCOM)	1144	E2497	1617	EA15X94CL	2016
DS442FM	1122	DT4011	2041	DX-0299	1122	E0102FD	1067	E305	2035	E2499	1617	EA15X94P	2016
DS442X	1122	DT4110	2041	DX-0349	1104	E0102YA	1067	E500L	1104	E3006	1104	EA15X96	1617
DS442X-BT	1122	DT4111	2041	DX-0398	565	E0102YB	1067	E650L	1104	E4676B	1104	EA15X101	1617
DS443	1122	DT4120	2041	DX-0398(,1SS119)	1122	E0102YD	1067	E6[illegible]	1122	E7441	1104	EA15X102	2030
DS444	1122	DT4121	2041	DX-0402	562	E0704-W	1104	E750(ELCOM)	1104	E9625	2058	EA15X103	1617
DS445	1122	DTA2B	1000	DX-0403	563	E-0704W	1104	E752(ELCOM)	1104	E10116	1104	EA15X103CL	2009
DS448-FA1	1122	DTA2C	1000	DX-0408	561	E0704W	1144	E756(ELCOM)	1104	E10157	1104	EA15X111	1617
DS448FA1	1122	DTA2E	1000	DX-0445	1102	E0771-3	562	E758(ELCOM)	1114	E10171	1104	EA15X112	1617
DS452	1104	DTA3C	1000	DX-0475	1104	E0771-7	563	E760(ELCOM)	1114	E10172	1104	EA15X113	2016
DS454	1104	DTA3E	1000	DX0475	1104	E0788-C	1104	E842	2016	E21135	1123	EA15X122	1122
DS-509	2041	DTA8C	1000	DX-0530	561	E0788C	1104	E843	2016	E21430	1123	EA15X126	565
DS509	2041	DTA10C	1000	DX-0543	1122	E03155-001	1104	E844	2016	E21431	561	EA15X130	2030
DS-512	2030	[illegible]	2055	DX-0721	1114	E03155-002	1104	E1010	1104	E24100	1104	EA15X130A	2016
DS512	2030	[illegible]	2055	DX-0725	1123	E1	1104	E1011	1104	E24101	1114	EA15X131	2016
DS-513	2030	[illegible]	2055	DX-0728	562	E1A	2016	E1018N	1104	E24103	1617	EA15X131A	2016
DS513	2030	DTS-403	2055	DX-0987	565	E1A3	1101	E1031RT	1123	EA000-15000	2411	EA15X132	2016
DS-514	2041	DTS-409	2055	DX520	1104	E1CM-0060	705	E1031RXT	1123	EA005	1104	EA15X132L	2016
DS514	2041	DTS-431	2055	DX-1039	1104	E1M3	1114	E1121R	1122	EA0013	2016	EA15X134	2016
DS-519	2041	DTS-431M	2055	DX1039	1104	E1N3	1114	E1124	1104	EA0015	1104	EA15X134L	2016
DS519	2041	DTS-701	2055	DX-1139	1122	E2	1122	E1138R	1122	EA0016	1104	EA15X135	2016
DS-781	2016	DTS701	2055	DX-1161	1104	E-2SC536AG-SP	2009	E1143RD	1114	EA0031	1104	EA15X135L	2016
DS1488J	2520	DTS-702	2055	DX-1163	563	E-2SC536E-NF	2009	E1146J	1104	EA0081	2030	EA15X136	1617
DS1488N	2520	DTS702	2055	DX-1165	1020	E-2SC930D-N[illegible]	2016	E1146R	1104	EA0090	2030	EA15X137	2009
DS1489AJ	2521	DTS-704	2055	DX1193	565	E-2SC930E-NF	2016	E1153R	1104	EA0091	2016	EA15X142	1617
DS1489AN	2521	DTS704	2055	DX1194	561	E-2SC1923-O	2030	E1156RD	1104	EA0092	1617	EA15X143	1617
DS1489J	2521	DTS-708	2055	DX-1229	1114	E-2SD734G	2009	E1157RNA	1104	EA0093	2016	EA15X144	2030
DS1489N	2521	DTS-709	2055	DX-1325	1123	E3	1104	E1158ZA	561	EA0094	2016	EA15X152	2016
DS4003	1102	DTS-710	2055	DX-1535	564	E5	1104	E1176R	1122	EA0095	2016	EA15X153	1617
DS4148	1122	DTS-712	2055	DX-1662	1114	E6	1104	E1221R	1122	EA01-07R	564	EA15X157	2009
DS5295G	1104	DTS-714	2055	DX-1692	1173	E8	1114	E1229R	1122	EA010	1104	EA15X160	2017
DS5295J	1104	DTS-723	2055	DX-1912	1104	E9	1114	E1237RF	1104	EA020	1104	EA15X161	2016
DSA010	1122	DTS-802	2055	DX-1993	565	E10	1114	E1256R	1122	EA030	1104	EA15X162	1617
DSA015	1122	DTS802	2055	DX-2230	1122	E13-000-03	1617	E1270R	1104	EA040	1104	EA15X163	1617
DSA1A1	1104	DTS-804	2055	DX-2231	[illegible]	E13-000-04	1617	E1286R	1122	EA050	1104	EA15X165	2035
DSA1A2	1102	DTS804	2055	DX-2232	1102	E13-001-02	2023	E1304R	1114	EA060	1104	EA15X167	1617
DSA1A4	1103	DTS3704	2055	DX-2253	561	E13-001-03	2023	E1308R	1104	EA080	1114	EA15X168	2030
DSA10G	1114	DTS3704A	2055	DX-2272	1122	E13-001-04	2023	E1315R	1114	EA0X12	2020&27	EA15X169	2035
DSA10J	1114	DTS3704B	2055	DX-2273	1104	E13-002-03	1617	E1324R	1122	EA15X1	1617	EA15X171	1122
DSA10L	1114	DU400	1104	DX-2274	1104	E13-003-00	1617	E1332R	1122	EA15X9	1617	EA15X172	1122
DSA12B	1114	DU600	1104	DX-2275	1104	E13-003-01	1617	E1339R	1104	EA15X14	1114 N1	EA15X180	2009
DSA12C	1114	DU800	1114	DX-2276	1103	E13-004-00	2009	E1410	1104	EA15X18	1617	EA15X185	2023
DSA12E	1114	DU1000	1114	DX-2277	1104	E13-005-02	1617	E1411	1104	EA15X18CL	2009	EA15X189	2009
DSA12G	1114	[illegible]	2035	DX-2277(,[illegible]15)	1104	E13-006-02	2023	E1412	1104	EA15X20	1617	EA15X190	2009
DSA12J	1114	DWMAT54WA	1122 N1	DX-2281	1020	E13-009-00	2055	E1412R	1104	EA15X22	1617	EA15X192	2035
DSA12L	1114	DWMAT54WK	1122 N2	DX-2306	563	E13-013-03	1101	E1413	1104	EA15X24	1617	EA15X194	2023
DSA17B	1114	DX-0007	1101	DX2321	1114	E13-013-04	1101	E1413R	1104	EA15X31	1617	EA15X213	2016
DSA17C	1114	DX-0022	1122	DX2322	1123	E13-017-01	1122	E1415	1104	EA15X37	1617	EA15X233	2023
DSA17E	1114	DX0022	1122	DX2327	1122	E13-020-00	1104	E1428R	1104	EA15X44	1617	EA15X237	1617
DSA26B	1114	DX0038CE	1103	DX-2443	1103	E13-021-03	1101	E1440	1104	EA15X44P	2016	EA15X238	2035
DSA26C	1114	DX0055CE	1104	DX-2447	1122	E13-20-00	1104	E1442R	1104	EA15X45	1617	EA15X239	2016
DSA26E	1114	DX-0079	1122	DX-2451	563	E14C350	1104	E1490R	1104	EA15X45CL	2016	EA15X240	2009
DSA150	1122	[illegible]	1122	DX-2556	1104	E20C30	1123	E1518R	1104	EA15X45P	2016	EA15X241	2016
DSB010	1122	[illegible]	1122	DX-2617	1104	E21	1104	E1523R	1104	EA15X48	2016	EA15X242	2023
DSB015	1122	DX0085TA	1104	DX6873	1123	E25C5	1104	E1534R	1104	EA15X49	2016	EA15X245	2016
DSBN-1	1104	[illegible]	1104	DY1SS131	1122	E30C60	1123	E1598R	1122	EA15X50	2016	EA15X248	2017
DSC010	1122	[illegible]	1104	DY1SS133	1122	E-41	1104	E1645Z	563	EA15X51	2016	EA15X249	2009
DSD010	1122	DX-0087	562	DYDA203	1122 N3	E41	1104	E1660Z	565	EA15X52	1617	EA15X251	2009
DSF10A	1101	DX-0099	1104	DYDAN201VA	1122 N2	E101	2062	E1704R	1114	EA15X54	2016	EA15X256	2009

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EA15X258	2016	EA15X7178	2009	EA16X94	1122	EA1716	1617	EAD00-09200	561	ECG141A	563	ECG5013	561
EA15X259	2016	EA15X7179	2009	EA16X95	1122	EA1718	1617	EAD00-10100	565	ECG142	563	ECG5013A	561
EA15X264	2016	EA15X7215	2016	EA16X97	1123	EA1733	2016	EAD00-10400	565	ECG142A	563	ECG5017	562
EA15X267	2009	EA15X7228	2016	EA16X101	1122	EA1735	1617	EAD00-15100	564	ECG145	564	ECG5017A	562
EA15X272	1617	EA15X7231	2016	EA16X105	1122	EA1740	2041	EAD00-20200	561	ECG145A	564	ECG5018	562
EA15X288	2016	EA15X7232	1617	EA16X110	1122	EA1778	2009	EADT0-16700	561	ECG152	2020	ECG5018A	562
EA15X325	2009	EA15X7233	2058	EA16X122	1122	EA1793	2016	EAQ00-02000	1802	ECG153	2027	ECG5021	563
EA15X327	2020	EA15X7234	2058	EA16X124	564	EA1872	1617	EAQ00-11100	1723	ECG156	1114	ECG5021A	563
EA15X328	2027	EA15X7235	2058	EA16X126	565	EA1873	2030	EAQ00-11100		ECG159	2023	ECG5024	564
EA15X330	1617	EA15X7236	2058	EA16X134	1122	EA2131	2016	(,HA17555PS)	1723	ECG159MCP	2009&23	ECG5024A	564
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ER57X4	1104	ERB28-04D	1104	ES-1	1104	ES16X33	1114	ET15X14	1617	EU02Z	1104		2009
ER61	1104	ERB28-04DV	1114	ES1	1104	ES16X38	1104	ET15X15	1617	EU-1	1104	EW15X160	2030
ER62	1104	ERB28-06D	1104	ES1KX123	2058	ES16X40	1122	ET15X16	1617	EU1	1104	EW15X160(,2SD638)	
ER81	1114	ERB28-06DV	1104	ES-1V	1104	ES16X70	1123	ET15X18	2016	EU-1A	1104		2030
ER101	1104	ERB29-02	1104	ES1V	1104	ES16X103	1123	ET15X19	2009	EU1A	1104	EW15X160(,2SD638QRS)	
ER102D	1104	ERB29-04	1104	ES11	2016	ES20(ELCOM)	1617	ET15X20	2009	EU-1AV	1104		2030
ER103D	1104	ERB35-02	1102	ES15	2016	ES22(ELCOM)	2030	ET15X21	2016	EU-1V	1104	EW15X171	2016
ER103E	1104	ERB43	1104	ES15X1	1617	ES31(ELCOM)	2041	ET15X23	2009	EU-1Z	1104	EW15X171(,2SD637)	
ER104D	1104	ERB43-02	1104	ES15X2	2016	ES34(ELCOM)	2023	ET15X24	1617	EU1Z	1104		2016
ER105D	1104	ERB43-04	1104	ES15X3	2016	ES36X103	1123	ET15X27	2009	EU-2	1104	EW15X171(,2SD637CR)	
ER106D	1104	ERB43-04G	1104	ES15X6	2016	ES46	1617	ET15X30	2016	EU2	1104		2016
ER107D	1114	ERB43-04V	1104	ES15X7	1617	ES46(ELCOM)	1617	ET15X33	2023	EU2A	1104	EW15X172	2009
ER108D	1114	ERB44-02	1104	ES15X9	2023	ES47X1	1104	ET15X36	2030	EU-2V	1104	EW15X172(,2SD636(Q))	
ER181	1104	ERB44-04	1104	ES15X10	2016	ES47X4	1104	ET15X37	1617	EU2V	1104		2009
ER182	1104	ERB44-04V	1104	ES15X11	1617	ES51	1104	ET15X41	1617	EU2Z	1104	EW15X172(,2SD636(R))	
ER183	1104	ERB44-06	1104	ES15X12	2020	ES51X65	2030	ET15X42	1617	EU2ZV	1104		2009
ER184	1104	ERB44-10	1114	ES15X14	1617	ES53(ELCOM)	1617	ET15X45	1617	EU15X1	2016	EW15X172(,2SD636(S))	
ER185	1104	ERB47-02	1102	ES15X16	1617	ES54(ELCOM)	2016	ET15X54	2009	EU15X2	2016		2009
ER186	1114	ERB81	1114	ES15X18	2016	ES56(ELCOM)	2030	ET16X1	1123	EU15X3	2016	EW15X172(,2SD636Q)	
ER187	1114	ERB1201	1114	ES15X19	2016	ES57(ELCOM)	2030	ET16X15	563	EU15X6	2016		2009
ER201	1104	ERB1202	1114	ES15X20	1617	ES57X1	1104	ET16X19	1123	EU15X27	2030	EW15X172(,2SD636QR)	
ER-300	066A	ERB4302	1104	ES15X22	2009	ES57X2	1104	ET16X20	1123	EU15X34	2030		2009
ER301	1104	ERB4304	1104	ES15X23	1617	ES57X4	1104	ET16X21	1123	EU16X1	1123	EW15X172(,2SD636QRS)	
ER308	1114	ERB4304G	1104	ES15X24	1617	ES57X5	1104	ET51X37	1123	EU16X2	1123		2009
ER310	1114	ERB4304V	1104	ES15X30	2016	ES57X12	1122	ET51X3	1617	EU16X7	1104	EW15X172(,2SD636R)	
ER381	1104	ERB4404V	1104	ES15X37	1617	ES62(ELCOM)	2030	ET51X25	1104	EU16X8	1101		2009
ER401	1104	ERB4702	1102	ES15X42	1617	ES65(ELCOM)	2023	ET52X25	1104	EU16X11	1122	EW15X172(,KTC1815GR)	
ER410	1104	ERC-01-02	1114	ES15X56	2016	ES69(ELCOM)	2041	ET55-25	1104	EU16X19	1123		2009
ER501	1104	ERC01-02	1114	ES15X57	2016	ES73(ELCOM)	2016	ET55X25	1104	EU16X20	1104	EW15X178	2023
ER510	1104	ERC01-02F	1114	ES15X58	1617	ES80(ELCOM)	2020	ET55X29	1104	EU57X30	1104	EW15X183	2016
ER601	1104	ERC01-02FL12	1114	ES15X60	2016	ES81(ELCOM)	2027	ET57X25	1104	EU57X38	1101	EW15X187	2009
ER801	1114	ERC01-02L	1114	ES15X62	1617	ES85(ELCOM)	1617	ET57X26	1101	EU57X40	1104	EW15X190	2023
ER1001	1114	ERC01-02L-12	1114	ES15X64	1617	ES86(ELCOM)	2016	ET57X29	1104	EU-Z	1104	EW15X190(,2SB641(Q))	
ERA21-02	1102	ERC01-02L12	1114	ES15X65	2016	ES90	2043	ET57X30	1104	EUZ	1104		2023
ERA21-04	1103	ERC01-04	1114	ES15X66	2016	ES95	2055	ET57X33	1104	EV15	564	EW15X190(,2SB641(R))	
ERA21-06	1104	ERC01-04F	1114	ES15X67	2009	ES95(ELCOM)	2055	ET57X35	1104	EVD-3	1122		2023
ERA22-02	1102	ERC01-06	1114	ES15X68	1617	ES1627	1122	ET57X38	1104	EVM511	1104	EW15X190(,2SB641(S))	
ERA22-04	1103	ERC01-10	1114	ES15X70	1617	ES3266	2016	ET200	1104	EVR5	561		2023
ERA22-04V	1103	ERC04-02	1114	ES15X76	1617	ES10186	2016	ET400	1104	EVR5A	561	EW15X190(,2SB641)	
ERA22-06	1104	ERC04-02E3	1114	ES15X79	2016	ES10187	2009	ET600	1104	EVR5B	561		2023
ERA22-08	1114	ERC04-02F	1114	ES15X80	2016	ES10188	2009	ET35035	2023	EVR6	561	EW15X190(,2SB641Q)	
ERA81-004	1165	ERC04-04	1114	ES15X81	2016	ES10189	1123	ET234854	2009	EVR6A	561		2023
ERA81-004G	1165	ERC04-04C	1114	ES15X82	2016	ES10222	2009	ET238894	1617	EVR6B	561	EW15X190(,2SB641QR)	
ERA82-004	1165	ERC04-04F	1114	ES15X83	1617	ES10223	2009	ET329218	2009	EVR9	562		2023
ERA84-009	1104	ERC04-06	1114	ES15X84	1617	ES10224	1123	ET350335	2023	EVR9A	562	EW15X190(,2SB641RS)	
ERA1501	1104	ERC04-10	1114	ES15X85	1617	ES10225	1123	ET368021	1617	EVR9B	562		2023
ERA1502	1104	ERC05-06	1114	ES15X86	2020	ES10231	2016	ET379462	2016	EVR11	563	EW15X199	2030
ERA2202	1104	ERC05-08V	1114	ES15X87	2016	ES10232	1617	ET398711	2016	EVR11A	563	EW15X199(,2SD639QR)	
ERA2204	1104	ERC05-10	1114	ES15X88	2016	ES10233	1104	ET398777	2016	EVR11B	563		2030
ERA81004	1165	ERC0402	1114	ES15X90	2023	ES10234	563	ET412626	1617	EVR12	563	EW15X206	2016
ERA81004G	1165	ERC0402E3	1114	ES15X92	2035	ES15046	2016	ET491051	2035	EVR12A	563	EW15X215	2023
ERB01-05	565	ERC0508	1114	ES15X93	2030	ES15047	2016	ET495371	2017	EVR12B	563	EW15X215(,2SB642(Q))	
ERB01-10	1114	ERC0508V	1114	ES15X94	2055	ES15048	2009	ET517263	2016	EVR15	564		2023
ERB-06B	1104	ERC0510	1114	ES15X96	2016	ES15049	2016	ET703844	2009	EVR15A	564	EW15X215(,2SB642(R))	
ERB11-01	1104	ERC0510V	1114	ES15X97	2016	ES15050	1617	ET703854	2009	EVR15B	564		2023
ERB-12-01	1104	ERC12-08	1114	ES15X101	2023	ES15052	2016	ET703865	2023	EW15X6	2009	EW15X215(,2SB642(S))	
ERB12-01	1104	ERC16-06	1104	ES15X102	2016	ES15054	1123	ET703874	2009	EW15X26	2027		2023
ERB12-01G	1104	ERC16-10	1104	ES15X104	2016	ES15056	1104	ET703875	2023	EW15X42	2009	EW15X215(,2SB642QR)	
ERB-12-01RK	1102	ERC24-04	1104	ES15X105	2016	ES15057	1122	ET703894	2020	EW15X44	2023		2023
ERB12-01RK	1102	ERC24-06	1104	ES15X106	2009	ES15102	2016	ET704334	2016	EW15X55	2023	EW15X215(,2SB642QRS)	
ERB12-01U4	1104	ERC24-06S	1104	ES15X107	2023	ES15226	2030	ETD-1N60	1123	EW15X57	2009		2023
ERB12-01V	1104	ERC25-04	1104	ES15X119	2016	ES15227	2017	ETD152788	1122	EW15X58	2023	EW15X215(,2SB642RST)	
ERB-12-02	1122	ERC25-06	1104	ES15X120	2016	ESA-06	1173	ETD-10D1	1104	EW15X59	2027		2023
ERB12-02	1114	ERC44-04	1104	ES15X121	2016	ESA06	1173	ETD-10D2	1104	EW15X63	2009	EW15X219	2030
ERB12-02RK	1104	ERC81-004	1114	ES15X122	2016	ESA10-98	1104	ETD-5046	1123	EW15X66	2009	EW15X223	2023
ERB12-02V	1104	ERC510	1114	ES15X123	2016	ESA10-99	1104	ETDCDG21	1122	EW15X70	2009	EW15X224	2016
ERB12-04	1114	ERC1208	1114	ES15X127	2009	ESA-10C	1104	ETD-RD9.1FB	562	EW15X78	2016	EW15X225	2020
ERB12-04RK	1104	ERCC4-06	1114	ES15X128	2023	ESA-10N	1104	ETD-SD46	1123	EW15X110	2009	EW15X226	2009
ERB12-06	1114	ERD03-02	1114	ES16(ELCOM)	2041	ESK-1	1104	ETD-SG9150	1122	EW15X130	2016	EW15X231	2016
ERB12-10	1114	ERD03-04	1144	ES16X2	1123	ESK1	1104	ETD-V06C	1104	EW15X135	2023	EW15X234	2009
ERB12-11	1104	ERD100	1104	ES16X3	1123	ESK1/02	1104	ETI-23	705	EW15X135(,2SA937M		EW15X235	2020
ERB22-15	1104	ERD200	1104	ES16X4	1122	ESK1/06	1104	ETS-003	2041	(R))	2023	EW15X237	2027
ERB24-02D	1104	ERD300	1104	ES16X5	1123	ESKE40C500	1104	ETS-068	1617	EW15X135(,2SA937M		EW15X240	2023
ERB24-04	1104	ERD400	1104	ES16X6	1123	ESKE125C500	1114	ETS-070	2030	(S))	2023	EW15X241	2020
ERB-24-04C	1104	ERD500	1104	ES16X7	1123	ESM582	1122	ETTC-458LG	1617	EW15X144	2023	EW15X243	2009
ERB24-04C	1104	ERD600	1104	ES16X8	563	ESZ5.1	565	ETTC-930D	2016	EW15X148	2023	EW15X254	2009
ERB24-04CV	1104	ERD700	1114	ES16X9	1104	ESZ6.2	561	ETTC-945	2009	EW15X148(,2SA950(Y))		EW15X260	2023
ERB24-04D	1104	ERD800	1114	ES16X12	1123	ESZ9.1	562	ETTC-CD8000	1617		2023	EW15X276	2023
ERB24-06	1104	ERD900	1114	ES16X13	1104	ESZ12	563	ETTC-CD12000	1617	EW15X148(,2SB643RS)		EW15X278	2020
ERB24-06A	1104	ERD1000	1114	ES16X14	1123	ET15X2	2016	ETTC-CD13000	1617		2023	EW15X279	2023
ERB24-06B	1104	ERD2904	1104	ES16X21	1123	ET15X3	2016	ETT-CDC-12000	1617	EW15X154	2009	EW15X286	2016
ERB24-06C	1104	ERS100	2030	ES16X24	1122	ET15X7	2016	ETTD-235	2020	EW15X154(,2SC2206)		EW15X315	2016
ERB28-02	1104	ERV-02F2150	1104	ES16X25	1104	ET15X9	2016	ETX18	2009		2009	EW15X315(,2SD637Q)	
ERB28-04	1104	ERZ-C14DK201	570	ES16X27	1122	ET15X10	2009	EU01	1104	EW15X154(,2SC2206BC)			2016
ERB28-04B	1104	ERZ-C14DK201U	570	ES16X27(,MA150)	1122	ET15X11	2009	EU01A	1104		2009	EW15X316	2016
ERB28-04C	1104	ERZ-C20DK201	568	ES16X30	1122	ET15X12	2030	EU01Z	1104	EW15X158	2009		

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EW15X316(,2SD637RS)	2016
EW15X317	2030
EW15X317(,2SD638(Q))	2030
EW15X317(,2SD638(R))	2030
EW15X317(,2SD638(S))	2030
EW15X317(,2SD638QRS)	2030
EW15X317(,2SD638R)	2030
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EW15X521	2009
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EW15X549	2016
EW15X549(,2SC3112AB)	2016
EW15X566	2009
EW15X568	2016
EW15X572	2023
EW15X574	2009
EW15X576	2009
EW15X576(,2SC2724E)	2009
EW15X577	2009
EW15X578	2023
EW15X581	2009
EW15X582	2009
EW15X582(,2SC2724-D)	2009
EW15X583	2009
EW15X585	2009
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EW16X336	1122
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EW16X486	1103
EW16X487	563
EW16X490	1122
EW16X526	1122
EW16X530	1103
EW16X533	565
EW16X535	563
EW16X540	1114
EW16X541	1104
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EW16X545	1173
EW16X548	1122
EW16X551	565
EW16X554	1102
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EW16X560	1104
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EW16X563	1114
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EW16X583	1122
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EW16X607	562
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EW16X615	562
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EW84X30	2417
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F121-546	2009
F121-433804	1617
F136	1123
F209	2023
F215-1001	2016
F215-1002	2016
F215-1003	2016
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F215-1005	2016
F215-1010	1123
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F-302-1	2009
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F9625	2016
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F-12737	2020
F-13316	2020
F-13317	2020
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F-14959	1122
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FC91	1122
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FCS1168E	2016
FCS1168E641	2016
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FE-102	2035	FR063	1104	FSP-270-1	2016	FWL50	1171	G05-036-C	2009	G7SE211	2043	GD1E	1123
FE102	2035	FR064	1104	FSP-288-1	1104	FWL100	1104	G05-036-C,D,E	1617	G8	1114	GD1P	1123
FE-102A	2035	FR065	1104	FSP-289-1	2016	FWL200	1104	G05-036-D	2009	G9.1T5	562	GD1Q	1123
FE102A	2035	FR-1	1104	FST2	1104	FWL300	1104	G05-036-E	2009	G9.1T10	562	GD2E	1123
FE-104A	2035	FR1	1104	FST3	1104	FWL400	1173	G05-036B	2009	G9.1T20	562	GD4E	1123
FE104A	2035	FR1-54A	1104	FT001	2030	FWLA50	1171	G05-036C	2009	G10	1114	GD5E	1123
FE-400	2035	FR1D	1122	FT002	2030	FWLA100	1171	G05-036D	1617	G12T5	563	GD6E	1123
FE400	2035	FR-1H	1104	FT003	2030	FWLA300	1173	G05-036E	1617	G12T10	563	GD8E	1123
FE402	2035	FR1H	1104	FT004	2030	FWLA400	1173	G05-037-A	2058	G12T20	563	GD10	1123
FE-402A	2035	FR-1H(M)	1104	FT004A	2030	FWLC300	1173	G05-037-B	2009	G15T5	563	GD11E	1123
FE402A	2035	FR-1HM	1104	FT005	1617	FWLC400	1173	G05-037-D	2009	G15T10	564	GD12	1104
FE-404A	2035	FR-1M	1104	FT006	1617	FX709	2016	G05-037B	1617	G15T20	564	GD12E	1123
FE404A	2035	FR1M	1104	FT008	1617	FX914	2058	G05-050-C	2016	G95G	1104	GD13E	1123
FE4302	2062	FR1MB	1104	FT008A	1617	FX916	2058	G05-055-C	2009	G100A	1104	GD-25	1123
FE5245	2035	FR-1MD	1104	FT0019H	2030	FX2368	2009	G05-055-D	2009	G100B	1104	GD25	1123
FF400	2035	FR1MD	1104	FT0019M	2023	FX2369A	2058	G05-055-E	2009	G100D	1104	GD-26	1123
FG-2N	1114	FR-1N	1104	FT023	1617	FX2894	2023	G05-063-R	2058	G100G	1104	GD-29	1123
FG-2NA	1104	FR-1P	1104	FT024	1617	FX3013	2058	G05-064-A	2009	G100J	1104	GD-30	1123
FI1023	2016	FR1P	1104	FT025	1617	FX3014	2058	G05-065-A	2016	G100K	1114	GD72E/3	1123
FIP100D	1144	FR-1U	1104	FT026	1617	FX3300	2009	G05-066A	2009	G100M	1114	GD72E/4	1123
FJN131	1801	FR1U	1104	FT027	2030	FX3964	2023	G05-413A	2009	G130	1104	GD72E/5	1123
FJH231	1801	FR-2	1104	FT052	2023	FX4046	2009	G05-413B	2009	G154	1123	GD72E3	1123
FJH241	1802	FR2	1104	FT053	1617	FZ5.1T5	565	G05-413C	2009	G155	1123	GD72E4	1123
FJN311	1801	FR2-02	1104	FT-1	1104	FZ5.1T10	565	G05-413D	2009	G156	1123	GD72E5	1123
FJJ141	1808	FR2-02(DIO)	1104	FT1	1122	FZ6.2T10	561	G05-706-D	2009	G157	1123	GD73E/3	1123
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FJT1118	1101	FR2-020	1104	FT-10	1104	FZ12T5	563	G08-005L	2035	G198	1123	GD73E3	1123
FJT1134	1101	FR2-0Z	1104	FT10	1114	FZ12T10	563	G08-007-B	2035	G199	1123	GD73E4	1123
FK914	2016	FR-2M	1104	FT14A	1104	FZ15A	564	G08D	1114	G200	1123	GD73E5	1123
FK918	2016	FR2M	1104	FT19H	2023	FZ15T5	564	G01036	562	G222	1104	GD74E/3	1123
FK3494A	2016	FR2P	1104	FT19M	2023	FZ15T10	564	G01209	1122	G296	1104	GD74E/4	1123
FK2484	2016	FR2PC	1144	FT34G	2035	FZ101	2009	G01211	1104	G297	1123	GD74E/5	1123
FK3014	2016	FR10	1104	FT34Y	2035	FZ901	565	G01803	1122	G409	1123	GD74E3	1123
FK3299	2016	FR101	1104	FT40	2009	FZ1215	563	G03007	2023	G498	1123	GD74E4	1123
FK3300	2016	FR102	1104	FT45	2016	G00004A	1123	G05015	1617	G580	1123	GD74E5	1123
FK3484	2009	FR103	1104	FT107B	2016	G00008A	1123	G05015D	1617	G657	1104	GD107A	1123
FK3494	2009	FR104	1104	FT118	2016	G00-003-A	1123	G05015E	1617	G659	1104	GD400	1123
FLH101	1801	FR105	1104	FT340	2017	G00-004-A	1123	G05035	1617	G700	1104	GD401	1123
FLH201	1801	FR-202	1104	FT402	2055	G00-008-A	1123	G05036	1617	G701	1104	GD402	1123
FLH211	1802	FR12-01K	1102	[illegible]	2016	G00-009-A	1123	G05059	1617	G702	1104	GD403	1123
FLH311	1822	FRH-101	1104	FT1115	2016	G00-012-A	1122	G05705	2020	G704	1123	GD404	1123
FLJ161	1806	FR-U	1104	FT1124B	2016	G00-012A	1122	G0Q-535-B	1104	G766	1123	GD405	1123
FLL121T	1805	FS19	1123	FT1124C	2016	G00-013-B	1123	G1	1104	G788	1123	GD406	1123
FLL121V	1805	FS-1133	2009	FT1341	2023	G00-014-A	1122	G1A	1103	G789	1123	GD407	1123
FM1J2	1104	FS1168E641	2009	FT1746	2023	G00-502-A	1104	G1B	1104	G790	1123	GD408	1123
FM211N	1104	FS1168F813	2009	FT3055	2020	G00-502A	1104	G1D	1103	G814	1123	GD409	1123
FM708	2016	FS1221	1617	FT3567	2009	G00-534-A	1104	G1G	1103	G815	1123	GD411	1123
FM709	2016	FS1308	2016	FT3568	2009	G00-535-B	1104	G1HA	1123	G816	1123	GD-510	1122
FM720A	2016	FS1331	2030	FT3569	2009	G00-535A	1104	G1K	1114	G820	1123	GD510	1123
FM870	2016	FS1682	2023	FT3638	2023	G00-536-A	1104	G1M	1114	G821	1123	GD663	1123
FM871	2016	FS1874	1617	FT3643	1617	G00-536A	1104	G2	1104	G822	1123	GD1001	1123
FM910	2016	FS2003-1	2041	FT4354	2023	G00-543-A	1104	G2A	1104	G823	1123	GD3638	1122
FM911	2016	FS2043	2009	FT4355	2023	G00-551-A	1104	G2B	1114	G824	1123	GE-1N506	1104
FM914	2016	FS3266	2016	FT5040	2023	G00-803-A	1122	G2D	1114	G825	1123	GE-6GX1	1101
FM1613	2016	FS3683	2016	FT5041	2023	G00502A	1104	G2G	1114	G844	1123	GE6.2	561
FM1711	2016	FS-7812	1771	FTR129	2058	G00515A	1617	G2J	1114	G845	1123	GE6.2A	561
FM2242	1617	FS7812	1771	FU1M	1104	G00535	1104	G2K	1114	G846	1123	GE6.2B	561
FM2368	2016	FS24226	2023	FU-1MA	1104	G01	1104	G2M	1114	G847	1123	GE-10	2009
FM2369	2016	FS24954	2023	FU-1N	1104	G01-036-G	562	G3	1104	G868	1123	GE-10A	2016
FM2846	2016	FS27233	2030	FU1N	1104	G01-036-H	562	G3A	1141	G869	1123	GE-11	2016
FM3014	2016	FS27604	2009	FU-1NA	1104	G01-036A	561	G3B	1143	G-1010	1123	GE-14	2041
FMPS-A20	2009	FS32669	2016	FU1NA	1104	G01-037-A	563	G3D	1143	G1010	1123	GE-17	2009
FMPSA20	2009	FS35529	2016	FU1U	1104	G01-083-A	1122	G3G	1144	G1010A	1122	GE-18	2030
FN-51-1A	2009	FS326690	2016	FU-IM	1104	G01-209-B	1122	G4	1104	G1149	1104	GE-19	2041
FOS	1104	FSA1169	1101	FUIU	1104	G01-209B	1122	G4A	1114	G1179	1104	GE-20	1617
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FOR2D	1067	FSE1001	2016	FV23	1123	G02	1104	G4G	1144	G1501	1102	GE-28	2017
FOS100	2016	FSE3001	2016	FV-24	561	G03-017-B	2023	G4.7T5	565	G9423	2058	GE-37	2055
FOS101	2016	FSE5002	2016	FV24	1122	G03-407-Y	2023	G4.7T10	565	G9600	1617	GE-38	2055
FOS104	2009	FSP-1	2016	FV914	2016	G04-041B	2016	G4.7T20	565	G9600(G.E.)	1617	GE-39	2016
FP30801	2016	FSP1	2016	FV918	2016	G05-003-A	2009	G5	1104	G9623	1617	GE42-7	1104
FPN2907	2023	FSP-42	2016	FV2369A	2016	G05-003-B	2009	G5C	1123	G9625	2058	GE-60	2016
FPN3563	2016	FSP-42-1	2016	FV2484	2016	G05-004A	2016	G5F	1123	G9696	1617	GE-61	2058
FPR40-1001	1617	FSP42-1	2016	FV3014	2016	G05-010-A	1617	G5K	1123	G10119	1104	GE-62	2016
FPR40-1003	2016	FSP-164	2016	FV3299	2016	G05-011-A	1617	G5.1T5	565	G13638	2023	GE-65	2023
FPR40-1006	1123	FSP164	2016	FV3300	2016	G05-012-G	2016	G5.1T10	565	GARE	561	GE-66	2020
FPR50-1001	1617	FSP-165	2016	FW50	1171	G05-015-D	1617	G5.1T20	565	GB08D	1102	GE-66A	2020
FPR50-1002	1617	FSP165	2016	FW100	1104	G05-015C	1617	G6	1104	GB-1	1123	GE-69A	2027
FPR50-1003	2016	FSP-166	2016	FW300	1173	G05-034-D	1617	G6.2T5	561	GB1	1122	GE-77	2041
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FPZ12	563	FSP-215	2016	FW600A	1104	G05-035D	2016	G7E	1123	GC1144	1617	GE-86	2016
FR061	1104	FSP-242-1	2016	FWB3003	1172	G05-035E	1617	G7F	1123	GC1615-1	2030	GE-123	1617

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GE-129	2016	GER4005	1114	GET706	1617	GI2923	1617	GM-3	1114	GP10K	1114	GS9014I	2009
GF129	2016	GER4006	1114	GET708	1617	GI-2924	2016	GM3	1114	GP10M	1114	GS9014J	2009
GE-130	1104	GER4007	1114	GET914	1617	GI2924	1617	GM-3A	1114	GP15	1114	GS9014K	2009
GE-166	1171	GES92	2009	GET929	2030	GI-2925	2016	GM-3B	1114	GP15A	1114	GS9015-H	2023
GE-168	1173	GES93	2023	GET930	2030	GI-2926	2009	GM3B	1114	GP15B	1114	GS9015-I	2023
GE-178MP	1122	GES97	2009	GET2221	1617	GI3002	1104	GM-3Y	1114	GP15BL	1114	GS9015-J	2023
GE-210	2009	GES929	2009	GET2221A	2009	GI-3008	1104	GM3Y	1114	GP15D	1114	GS9015H	2023
GE-211	2009	GES930	2009	GET2222	1617	GI-3391	2016	GM-3Z	1114	GP15G	1114	GS9015I	2023
GE-212	2009	GES2221	2009	GET2222A	2009	GI-3391A	2016	GM3Z	1114	GP15J	1114	GS9015J	2023
GE-213	2009	GES2221A	2009	GET2369	1617	GI-3392	2016	GM308	2016	GP15K	1114	GS9018-G	2009
GE-237	2055	GES2222	2009	GET2483	2016	GI-3393	2016	GM760	2023	GP15M	1114	GS9018-H	2009
GE-241	2020	GES2222A	2009	GET3013	1617	GI-3394	2016	GM-770	2016	GP20A	1114	GS9018-I	2009
GE-243	2030	GES2483	2009	GET3014	1617	GI-3395	2016	GM770	2016	GP20B	1114	GS9018F	1617
GE-259	2055	GES2906	2023	GET3562	2016	GI-3396	2016	GMA-01	1122	GP20D	1114	GS9018G	2009
GE-262	2041	GES2907	2023	GET3563	2058	GI-3397	2016	GMA01	1122	GP20G	1104	GS9022-G	2009
GE-263	2043	GES2923	2009	GET3638	2023	GI-3398	2016	GMA-01-BT	1122	GP20J	1114	GS9022-H	2009
GE-268	2009	GES2924	2009	GET3638A	2023	GI-3403	2009	GMA01-BT	1122	GP20K	1114	GS9022F	2023
GE-269	2023	GES2925	2009	GET3646	1617	GI-3405	2009	GMA01-L	1122	GP20M	1114	GS9023	2009
GE-283	2009	GES2926	2009	GET3903	2009	GI-3415	2009	GMA-10-BT	1122	GP25A	1141	GS9023(H)	2009
GE-289A	2009	GES3053	2009	GET3904	2009	GI-3416	2009	GMB01	1122	GP-25B	1104	GS9023-1	2009
GE-300	1122	GES3392	2009	GEVR-101	1770	GI-3417	2009	GMB01L	1122	GP25B	1143	GS9023-G	2009
GE-302	2020	GES3393	2009	GEVR-102	1770	GI-3605	2016	GME040-1	2023	GP25D	1143	GS9023-H	2009
GE-312	2035	GES3395	2009	GEVR-110	1771	GI-3606	2016	GME1001	1617	GP25G	1144	GS9023-I	2009
GE-327	2058	GES3396	2009	GEVR-111	1771	GI-3607	2016	GME1002	1617	GP30A	1141	GS9023G	2009
GE-341	2020	GES3397	2009	GE-X5	1067	GI3638	2023	GME2001	1617	GP-30B	1143	GS9023H	2009
GE-345	2068	GES3414	2009	GE-X16A1938	1617	GI3638A	2023	GME2002	1617	GP30B	1143	GS9023I	2009
GE-414	1122	GES3415	2009	GE-X18	2017	GI-3641	2009	GME3001	2016	GP30D	1143	GS9023J	2009
GE-504	1104	GES3416	2009	GE-X36	1104	GI3641	1617	GME3002	2016	GP30G	1144	GS9023K	1617
GE-504A	1104	GES3417	2009	GEX36	1104	GI-3642	2009	GME4001	1617	GP230	1104	GS9024(J)	2009
GE-505	1114	GES3565	2009	GE-X66	1123	GI-3643	2009	GME4002	1617	GP250	1104	GS9024(K)	2009
GE-509	1114	GES3566	2009	GEX66	1104	GI3643	1617	GME4003	1617	GP252	1114	GS9024-I	2009
GE-509A	1114	GES4121	2023	GEZD-4.7	565	GI3644	2023	GME6001	2016	GP-300	1143	GS9025(J)	2009
GE-510	1114	GES4122	2023	GEZD-5.0	565	GI3702	2023	GME6002	2016	GP330	1122	GS9025H	2009
GE-512	1114	GES4248	2023	GEZD-5.1	565	GI3703	2023	GME6003	1617	GP340	1122	GS9025I	2009
GE-514	1122	GES5368	2009	GEZD-6.0	561	GI-3704	2009	GME9001	2016	GP2354	1123	GS9025J	2009
GE-531	1114	GES5369	2009	GEZD-6.2	561	GI3704	1617	GME9002	2016	GP2364	1123	GS9025J-1	2009
GE-1232	703	GES5370	2009	GEZD-8.7	562	GI-3705	2009	GME9021	2016	GPM1NA	1123	GS9033(I)	2009
GE-3229	2020	GES5371	2009	GEZD-9.1	562	GI3705	1617	GME9022	2016	GPM1NB	1123	GS9033(J)	2009
GE-3265	1617	GES5372	2023	GEZD-11.5	563	GI-3706	2009	GMO-380	2009	GPM1NC	1123	GSA15B	1114
GE3265	2009	GES5373	2023	GEZD-12	563	GI3706	1617	GMO380	2016	GPM1ND	1123	GSA15C	1114
GE-3639	1123	GES5374	2023	GEZD-15	564	GI-3707	2016	GO1-803A	565	GR10	1114	GSA15E	1114
GE3638	1123	GES5375	2023	GEZJ252A	1104	GI3707	1617	GO3-007C	2017	GR22	1114	GSA15G	1114
GE-4001	2401	GES5447	2023	GEZJ252B	1104	GI-3708	2016	GO4-041B	2009	GR23	1114	GSA30B	1114
GE-4011	2411	GES5448	2023	GFB-30G	1114	GI3708	1617	GO5-003-A	2009	GR24	1114	GSA30C	1114
GE-4013	2413	GES5449	1617	GFD10B	1104	GI-3709	2016	GO5-003-B	2009	GS73E/3	1123	GSA30E	1114
GE-4017	2417	GES5450	1617	GFD10C	1104	GI3709	1617	GO5-004A	2016	GS2012	2020	GSA30G	1114
GE-4049	2449	GES5451	2009	GFD10E	1104	GI-3710	2016	GO5-010-A	1617	GS2012(G)	2020	GSA30J	1114
GE-5304	1173	GES5811	2023	GFD10G	1104	GI3710	1617	GO5-011-A	1617	GS2012(H)	2020	GSB10B	1114
GE-5400	1067	GES5813	2023	GI08B	1104	GI-3711	2016	GO5-015-C	2009	GS2012G	2020	GSB10C	1114
GE-5401	1067	GES5814	2009	GI-1N4385	1104	GI3711	1617	GO5-015-D	2030	GS2012H	2020	GSB10E	1114
GE-5402	1067	GES5815	2023	GI10	1617	GI-3721	2016	GO5-034-D	2030	GS2013(G)	2020	GSB10G	1114
GE-5404	1067	GES5816	2009	GI-100-1	1104	GI3793	2016	GO5-035-D	2016	GS2013(H)	2020	GSB10J	1114
GE-5414	1067	GES5817	2023	GI254	1104	GI-3900	2016	GO5-035-D,E	2016	GS2013-G	2020	GSB10L	1114
GE-5415	1020	GES5818	2009	GI298-03	1104	GI-3900A	2016	GO5-035-E	2016	GS2013-H	2020	GSC2052G	2027
GE-5453	1067	GES5819	2023	GI-300B	1104	GI3992-17	1104	GO5-036-C,D,E	2009	GS2013-I	2020	GSC2052H	2027
GE-5455	1067	GES5821	2023	GI-300D	1104	GID	1104	GO5-036B	2009	GS2013-O	2020	GSH9025	2009
GE-5457	1020	GES5822	2009	GI323-04	1104	GI-P100-D	1104	GO5-036C	2009	GS2013-Y	2020	GS-I9011	2009
GE-5512	1020	GES5823	2023	GI411	1104	GIP100-D	1114	GO5-036D	2030	GS2013G	2020	GSM51	1101
GE-5642	1000	GES5824	2009	GI419-0	1104	GIP100D	1104	GO5-036E	2009	GS2013H	2020	GSM52	1101
GE-5801	1143	GES5825	2009	GI419B	1104	GI-TVC8	1101	GO5-037B	2009	GS2052(H)	2027	GSM53	1104
GE6063	1122	GES5826	2009	GI420	1104	GJ4M	1104	GO5-050-C	2009	GS2052D	2027	GSM54	1104
GE-6366	1104	GES5827	2009	GI428B	1104	GL-1N4385	1104	GO5-055-D	2030	GS2052G	2027	GSM482	1104
GE6366	1104	GES5827A	2009	GI500	1141	GL5AR2	041	GO5-413A	2030	GS2052H	2027	GSM483	1104
GE-7400	1801	GES5828	2016	GI501	1143	GL5PR6	041	GO6-714C	2017	GS2053-G	2027	GSR1	1114
GE-7404	1802	GES5828A	2016	GI502	1143	GL31AR	026	GO6-717-B	2017	GS2053-H	2027	GSZ4.7	565
GE-7408	1822	GES6000	2009	GI504	1144	GL-32AR	026	GO8-005L	2035	GS5628	1114	GSZ4.7A	565
GE-7447	1805	GES6001	2023	GI810	1104	GL7805	1770	GOO-004-A	1123	GS9011(I)	2009	GSZ5.1	565
GE-7490	1808	GES6002	2009	GI811	1104	GLA47	565	GOO-008-A	1123	GS9011(J)	2009	GSZ5.1A	565
GEA6.2(E)B2	561	GES6003	2023	GI812	1104	GLA47A	565	GOO-009-A	1123	GS9011-G	2009	GSZ6.2	561
GE-CR3	1101	GES6004	2009	GI814	1104	GLA47B	565	GOO-012-A	565	GS9011-H	2009	GSZ6.2A	561
GECR-3	1101	GES6005	2023	GI816	1104	GLA51	565	GOO-013-B	1123	GS9011-I	2009	GSZ9.1	562
GED05B050	1123	GES6006	2009	GI-2711	2009	GLA51A	565	GOO-014-A	565	GS9011F	2009	GSZ9.1A	562
GEDO5B050	1123	GES6007	2023	GI2711	1617	GLA51B	565	GOO-535-B	1144	GS9011I	2009	GSZ12	563
GE-FET-2	2035	GES6010	2030	GI-2712	2009	GLA62	561	GOO-536A	1144	GS9011J	2009	GSZ12A	563
GEIC-179	705	GES6011	2023	GI2712	1617	GLA62A	561	GOO-543-A	1144	GS9012-G	2023	GSZ15	564
GEIC-190	1770	GES6012	2030	GI2713	2009	GLA62B	561	GP05A	1104	GS9012-H	2023	GSZ15A	564
GEIC-194	1801	GES6013	2023	GI-2714	2009	GLA91	562	GP08B	1104	GS9012-I	2023	GT06	1000
GEIC-220	038	GES6014	2030	GI2714	1617	GLA91A	562	GP08D	1114	GS9012G	2023	GT15T5	564
GEIC-260	1740	GES6015	2023	GI-2715	2016	GLA91B	562	GP08DPKG23	1114	GS9012H	2023	GT1644	2023
GEIC-265	[illegible]	GES6016	2030	GI2715	1617	GM0373	1173	GP1	1104	GS9012I	2023	GU-1	1104
GEIC-269	1723	GES6017	2023	GI-2716	2016	GM0389	2016	GP2-345	1122	GS9012J	2023	GU-1A	1104
GEIC-334	703	GES6222	2009	GI2716	1617	GM-1	1114	GP2-354	1122	GS9014	2009	GU-1Z	1104
GEMR-5	1067	GES6224	2009	GI-2921	2016	GM-1A	1114	GP10A	1101	GS9014-H	2009	GU-3	1104
GER4001	1114	GES6560	2009	GI2921	1617	GM-1B	1114	GP10B	1104	GS9014-I	2009	GU3	1104
GER4002	1114	GES6561	2009	GI-2922	2016	GM-1C	1114	GP10D	1104	GS9014-J	2009	GU-3A	1104
GER4003	1114	GES6563	2023	GI2922	1617	GM1J2	1114	GP10G	1103	GS9014-K	2009	GU3A	1104

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
GU-3C	1104	H109	1114	HA7507	2023	HC-00536	2016	HC700	1104	HD1000301	1123	HE-442-54	1770
GU3C	1104	H123SH	1000	HA7510	2023	HC-00537	2009	HC710	1104	HD1000302	1123	HE-442-63	1772
GU-3SZ	1143	H142	1122	HA7533	2023	HC-00644	2030	HC720	1114	HD1000303	1123	HE-442-602	1711
GU3SZ	1143	H200	1104	HA7534	2023	HC-00668	2016	HC730	1114	HD1000303-0	1123	HE-442-663	1771
GU-3Z	1104	H254B4	1104	HA7536	2023	HC-00693	2009	HC-772	2009	HD1000320	1123	HE-442-674	1771
GV5760	1122	H254E4	1104	HA7537	2023	HC-00711	2016	HC772	2016	HD-2000106	1122	HE-443-7	1808
GV6063	1617	H284D4	1104	HA7538	2023	HC-00732	2016	HC784	2016	HD2000106	1122	HE-443-36	1805
GXI4.7	565	H300	1104	HA7543	2023	HC-00735	2009	HC800	1114	HD2000108	1114	HE-443-45	1822
GXI5.1	565	H315F4	1104	HA7597	2023	HC-00772	2016	HC829	2016	HD2000110-0	1104	HE-443-603	2411
GXI6.2	561	H315M2	1104	HA7598	2023	HC-00784	2058	HC-1000	2016	HD2000206	1122	HE-443-607	2413
GXI9.1	562	H316	1123	HA7599	2023	HC-00828	2009	HC-50102	1067	HD2000301	1104	HE-443-629	1808
GXI12G	563	H326B4	1104	HA7633	2023	HC-00829	2016	HC10004110	1801	HD2000301-0	1104	HE-443-695	2401
GXI15	564	H400	1104	HA7804	2023	HC-00838	2009	HCC4001BD	2401	HD2000305	1104	HE-443-703	2401
GXI115	563	H410	1101	HA7806	2023	HC00838	2009	HCC4001BF	2401	HD2000307	1104	HE-443-794	2520
GYMTZ9.1-C	562	H442	2016	HA7808	2023	HC-00839	2009	HCC4001BK	2401	HD-2000308	1104	HE-443-794(,75188N)	
GYW76	1104	H475	1104	HA7810	2023	HC-00871	2009	HCC4011BD	2411	HD2000308	1104		2520
GZ1-4.7	565	H500	1104	HA7815	2023	HC-00900	2016	HCC4011BF	2411	HD2000413	1104	HE-443-794(,MC1488)	
GZ1-5.1	565	H585	1104	HA9532B	2023	HC-00920	2016	HCC4011BK	2411	HD2000501	1102		2520
GZ1-6.2	561	H600	1104	HA17458GS	038	HC-00921	2009	HCC4013BD	2413	HD2000510	1104	HE-443-795	2521
GZ1-9.1	562	H614	1123	HA17555	1723	HC-00923	2016	HCC4013BF	2413	HD2000610	1104	HE-443-795(,MC1489A)	
GZ1-12G	563	H616	1104	HA17555PS	1723	HC-00924	2009	HCC4013BK	2413	HD2000703	1104		2521
GZ1-15	564	H617	1104	HA17558	038	HC-00929	2058	HCC4017BD	2417	HD2000803	1104	HE-443-795	
GZ1-115G	563	H618	1104	HA17723G	1740	HC-00930	2016	HCC4017BF	2417	HD2000903	1104	(,SN75189AN)	2521
GZ6.2	561	H619	1104	HA17741	007	HC00930	2058	HCC4017BK	2417	HD2001005	1122	HE-443-929	2417
GZA4.7	565	H620	1104	HA17741G	007	HC-00945	2009	HCF4001BE	2401	HD2001105	1122	HE-1024	1123
GZA4.7-X-BT	565	H621	1114	HA17741GS	007	HC-01000	2016	HCF4001BF	2401	HD2001310	1104	HE-10001	1123
GZA4.7X	565	H623	1122	HA17741PS	007	HC-01047	2016	HCF4011BE	2411	HD3000101-0	563	HE-10002	1123
GZA4.7Y	565	H624	1123	HA17805	1770	HC-01060	2017	HCF4011BF	2411	HD-3000301	1104	HE-10003	1123
GZA4.7Z	565	H625	1104	HA17805H	1770	HC-01098	2017	HCF4013BE	2413	HD3000401	562	HE-10024	1123
GZA5.1	565	H626	1104	HA17805P	1770	HC-01209	2030	HCF4013BF	2413	HD3001109	564	HE-10025	1123
GZA5.1(X)	565	H781	1104	HA17812P	1771	HC-01317	2030	HCF4017BE	2417	HD3002409	563	HE-10027	1123
GZA5.1(Y)	565	H783	1104	HA17815P	1772	HC-01318	2009	HCF4017BF	2417	HD3003309	565	HE-10030	1122
GZA5.1(Z)	565	H800	1114	HA17901G	1712	HC-01327	2016	HCF4049BE	2449	HD4000109	1123	HE-10044	1123
GZA5.1-BT	565	H-881	1114	HA17902G	1711	HC-01335	2016	HCF4049BF	2449	HD10001010	1123	HE-15188	1123
GZA5.1-X-BT	565	H881	1104	HA17902P	1711	HC-01359	2016	HCV	1104	HD10001050	1123	HE-15426	1123
GZA5.1-Y-BT	565	H889	1122	HA8005	1114	HC-01390	2009	HD-00227	1617	HD10002020	1123	HE-15446	1123
GZA5.1X	565	H890	1101	HAR10	1104	HC-01417	2016	HD-1	1104	HD20001100	1104	HE-20011	1104
GZA5.1Y	565	H891	1104	HAR15	1104	HC-01820	2009	HD10-001-01	1123	HD20001210	1122	HE-CD0000	1123
GZA6.2	561	H931	1617	HAR20	1104	HC-01830	2016	HD20-003-01	1104	HD20003010	1104	HEF4001BD	2401
GZA6.2(X)	561	H933	1617	HB2	1104	HC-30	1104	HD740LP	1801	HD20005100	1114	HEF4001BP	2401
GZA6.2(Y)	561	H934	1617	HB3	1101	HC30	1114	HD2000	1104	HD20007030	1104	HEF4001P	2401
GZA6.2-BT	561	H1000	1114	HB128	563	HC-39	1104	HD2000-301	1104	HD20011050	1122	HEF4011BD	2411
GZA6.2-X	561	H1017A	1144	HB50	1114	HC39	1114	HD2503	1801	HD20023100	1104	HEF4011BP	2411
GZA6.2-Y	561	H-1567	2009	HB600	1114	HC50	1114	HD2503P	1801	HD30017090	562	HEF4011P	2411
GZA6.2-Y-BT	561	H1567	1617	HB800	1114	HC-56	2009	HD2509	1801	H-DX0038CE	1103	HEF4013BD	2413
GZA6.2BT	561	H7126-3	1104	HB1000	1114	HC67	1104	HD2509P	1801	H-DX0046CE	1122	HEF4013BP	2413
GZA6.2U	561	H8287	1123	HBC4001AD	2401	HC67F	1114	HD2519	1808	H-DX0086TA	1104	HEF4013P	2413
GZA6.2Y	561	H8287-4	1123	HBC4001AF	2401	HC-68	1104	HD2519P	1808	H-DX0105TA	1104	HEF4017BD	2417
GZA9.1	562	H8513A	1123	HBC4001AK	2401	HC68	1104	HD2522	1802	H-DX0248CE	1104	HEF4017BP	2417
GZA9.1-Z	562	H8513D	1123	HBC4011AD	2411	HC69	1104	HD2522P	1802	HE-0A90	1123	HEF4017P	2417
GZA9.1E	562	H9423	1617	HBC4011AF	2411	HC71	1104	HD2532	1805	HE-1N34	1123	HEF4049BD	2449
GZA9.1Z	562	H9623	1617	HBC4011AK	2411	HC72	1114	HD2532P	1805	HE-1N34A	1123	HEF4049BP	2449
GZA12	563	H9625	2016	HBC4013AD	2413	HC72F	1114	HD2550	1822	HE-1N60	1123	HE-M8489	1122
GZA12-Y-BT	563	H9696	1617	HBC4013AF	2413	HC73	1114	HD2550P	1822	HE-1N60P	1123	HEP50	2009
GZA12BT	563	H10174	1104	HBC4013AK	2413	HC73F	1114	HD4001	2401	HE-15188	1123	HEP52	2023
GZA12X	563	H20052	1104	HBC4017AD	2417	HC80	1104	HD4011	2411	HE-1S426	1123	HEP53	2009
GZA12Y	563	H21400014	1122	HBC4017AF	2417	HC206	2016	HD4013	2413	HE-1S446	1123	HEP54	2009
GZA12YBT	563	H21400015	1122	HBC4017AK	2417	HC371	2009	HD4017	2417	HE-56-56	1122	HEP55	2016
GZA15	564	H21400026	1122	HBF4001	2401	HC372	2009	HD4049	2449	HE-56-58	561	HEP56	2016
GZB6.2	561	H23100024	2023	HBF4001A	2401	HC-373	2009	HD6147	1104	HE-56-73	1122	HEP57	2023
GZB9.1	562	H23100045	2023	HBF4001AE	2401	HC373	2009	HD6865	1104	HE-56-93	1122	HEP103	561
GZB9.1C	562	H31100129	2449	HBF4001AF	2401	HC380	2016	HD7400	1801	HE-57-27	1104	HEP104	562
GZB12	563	HA-00495	2023	HBF4009A	2449	HC381	2016	HD7400P	1801	HE-57-42	1114	HEP105	563
GZB12B	563	HA00562	2023	HBF4011	2411	HC394	2016	HD7401P	1801	HE-57-64	1114	HEP134	1123
GZB12C	563	HA-00564	2023	HBF4011A	2411	HC454	2016	HD7404	1802	HE-57-65	1104	HEP135	1123
GZB15	564	HA-00610	2023	HBF4011AE	2411	HC458	2009	HD7404P	1802	HE-234-264	1104	HEP154	1104
GZB15C	564	HA-00733	2023	HBF4011AF	2411	HC460	2016	HD7490A	1808	HE-234-266	563	HEP155	1104
GZM6.2(B2)	561	HA50	1104	HBF4013	2413	HC461	2016	HD7490AP	1808	HE-234-267	1104	HEP156	1102
GZM9.1(B2)	562	HA100	1104	HBF4013A	2413	HC-495	2017	HD14001B	2401	HE-234-267(,W103-254)		HEP157	1104
H)-00005	563	HA178M05	1770	HBF4013AE	2413	HC495	2020	HD14011B	2411		1104	HEP158	1104
H)-00008	1104	HA178M05P	1770	HBF4013AF	2413	HC500	1104	HD14011BP	2411	HE-234-274	1617	HEP159	1114
H)-00012	562	HA178M12P	1771	HBF4017	2417	HC-535	2009	HD14013B	2413	HE-234-275	2009	HEP160	1114
H)-00018	1104	HA178M15P	1772	HBF4017A	2417	HC535	2016	HD14017B	2417	HE-234-290	2009	HEP161	1141
H087	1123	HA200	1104	HBF4017AE	2417	HC535A	2016	HD14049UB	2449	HE-234-299	1122	HEP162	1143
H089	563	HA300	1104	HBF4017AF	2417	HC535B	2016	HD75188	2520	HE-234-353	1104	HEP166	1101
H091	1123	HA400	1104	HBF4049A	2449	HC-537	2016	HD75188P	2520	HE-234-522	2009	HEP170	1114
H1V	2016	HA500	1104	HC-00227	1617	HC537	2016	HD75189	2521	HE-234-523	2009	HEP175	1171
H1Z	1104	HA505	2027	HC-00268	2030	HC539	2009	HD75189P	2521	HE-234-526	1104	HEP177	1173
H11J1	134	HA600	1104	HC-00372	2058	HC545	2016	HD200207	1104	HE-417-821	2009	HEP243	2030
H11J2	134	HA800	1114	HC-00373	2016	HC-561	2009	HD200301	1104	HE-417-822	2023	HEP248	2043
H11J3	134	HA1000	1114	HC-00380	2016	HC561	2009	HD-1000101	1123	HE-417-865	2023	HEP312	2016
H11J4	134	HA2001	2035	HC-00394	2009	HC600	1114	HD1000101	1123	HE-417-874	1604	HEP320	1067
H11J5	134	HA2010	2035	HC-00458	2009	HC645	2016	HD1000101-0	1123	HE-417-875	2009	HEP340	1000
H50	1104	HA5062-5	1715	HC-00460	2009	HC-668	2016	HD1000105	1123	HE-417-923	2055	HEP602	565
H100	1104	HA7501	2023	HC-00461	2009	HC668	2016	HD1000105-0	1123	HE-417-937	2009	HEP604	563
H102	1617	HA7502	2023	HC-00509	2009	HC670	1104	HD1000107	1123	HE-442-21	038	HEP607	564
H104	2009	HA7506	2023	HC-00535	2058	HC680	1104	HD1000107-0	1123	HE-442-22	007	HEP704	2041

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HEP705	2041	HEPR0170	1114	HEP-Z0211	565	HF200191A/	2035	HKT-161	2009	HR13	1104	HS-1227	2016
HEP708	2023	HEPR0180	1114	HEPZ0211	565	HF200191A-0	2035	HL18998	1801	HR-13A	1617	HS-1229	1617
HEP709	2058	HEP-R0604	1114	HEPZ0211A	565	HF200191A0	2035	HL19000	1802	HR13A	2009	HS2047	565
HEP711	2030	HEPR0801	1171	HEP-Z0214	561	HF200191AO	2035	HL19015	1808	HR-14	2016	HS2051	565
HEP716	2023	HEPR0802	1171	HEPZ0214	561	HF200191B-0	2035	HL55763	1822	HR14	2009	HS2062	561
HEP717	2023	HEPR0804	1173	HEPZ0214A	561	HF200191B0	2035	HL55862	1802	HR-14A	1617	HS2091	562
HEP718	2016	HEPR0841	1171	HEP-Z0219	562	HF200191BO	2035	HL56420	1801	HR14A	2009	HS2120	563
HEP719	2058	HEPR0842	1171	HEPZ0219	562	HF200301B	2035	HL56421	1802	HR-15	2016	HS2150	564
HEP720	2058	HEPR0845	1173	HEPZ0219A	562	HF200301B0	2035	HM9.1	562	HR-15A	1617	HS3103	1104
HEP721	2016	HEPR0851	1171	HEP-Z0222	563	HF200301BO	2035	HM9.1A	562	HR15A	2009	HS3104	1104
HEP722	2016	HEPR0852	1171	HEPZ0222	563	HF200301C-0	2035	HM9.1B	562	HR-16	1617	HS3105	1122
HEP723	1617	HEPR0855	1173	HEPZ0222A	563	HF200301C-O	2035	HM12	563	HR16	2009	HS3108	1114
HEP724	1617	HEPR1001	1067	HEP-Z0225	564	HF200411B	2035	HM12A	563	HR-16A	1617	HS3110	1114
HEP725	2009	HEPR1002	1067	HEPZ0225	564	HF200411C0	2035	HM12B	563	HR16A	2009	HS7047	565
HEP726	2016	HEPR1003	1067	HEPZ0225A	564	HF309301E	2016	HM15	564	HR-17	1617	HS7051	565
HEP727	2016	HEPR1004	1067	HEP-Z0405	565	HF2000411B	2035	HM15A	564	HR17	2009	HS7062	561
HEP728	1617	HEPR1005	1067	HEPZ0405	565	HF-DS410	1122	HM15B	564	HR-17A	1617	HS7091	562
HEP729	1617	HEPR1215	1067	HEP-Z0406	565	HF-MV2	1122	HMG251	1122	HR17A	2009	HS7120	563
HEP730	2016	HEPR1216	1067	HEPZ0406	565	HF-SD1	1104	HMG252	562	HR-18	1617	HS7150	564
HEP731	2016	HEPR1217	1067	HEP-Z0408	561	HF-SD-1A	1104	HMG625	1122	HR18	2009	HS8407	2055
HEP732	2016	HEPR1218	1067	HEPZ0408	561	HFSD1A	1104	HMG625A	1122	HR-18A	1617	HS9010	1122
HEP733	2016	HEPR1219	1020	HEP-Z0412	562	HFSD1B	1104	HMG789	1122	HR18A	2009	HS9502	1122
HEP734	2016	HEPR1711	1000	HEPZ0412	562	HF-SD-1C	1104	HMG790	1122	HR-19	1617	HS9503	1122
HEP735	2009	HEPR1712	1000	HEP-Z0415	563	HFSD12	1114	HMG791	1122	HR19	2009	HS9505	1122
HEP736	2009	HEPR1713	1000	HEPZ0415	563	HFSG005	1104	HMG792	1122	HR-19A	1617	HS9506	1122
HEP737	2016	HEPR1715	1000	HEPZ0416	563	HG1090	1123	HMG811	1122	HR19A	2009	HS9508	1122
HEP738	2009	HEPR9002	1101	HEPZ0417	564	HG5001	1123	HMG812	1122	HR28	2030	HS9509	1122
HEP739	2023	HEPR9003	1101	HEP-Z0418	564	HG5002	1123	HMG813	1122	HR29	2030	HS-40014	2009
HEP801	2035	HEP-R9134	1123	HEPZ0418	564	HG5003	1123	HMG903	1122	HR-32	2009	HS-40016	2009
HEP802	2035	HEPR9134	1123	HEPZ0419	564	HG5004	1123	HMG903A	1122	HR32	2009	HS-40017	2016
HEP803	2035	HEPR9134A	1123	HEPZ1409	565	HG5005	1123	HMG904	1122	HR-36	2009	HS-40019	2016
HEPC3000L	1801	HEP-R9135	1123	HE-SD1	1104	HG5006	1123	HMG904A	1122	HR36	2009	HS-40020	2016
HEPC3000P	1801	HEPR9135	1123	H-EX0019GE	564	HG5007	1123	HMG905	1122	HR-37	1617	HS-40021	2016
HEPC3001L	1801	HEPR9136	1123	H-EX0047CE	563	HG5008	1123	HMG905A	1122	HR37	2009	HS-40022	2016
HEPC3001P	1801	HEPR9137	1122	H-EX0049CE	565	HG5009	1123	HMG906	1122	HR-38	2009	HS-40023	2016
HEPC3004L	1802	HEPS0002	2009	H-EX0061CE	563	HG5020	1123	HMG906A	1122	HR39	2016	HS40024	2016
HEPC3004P	1802	HEPS0004	2009	H-EX0247CE	561	HG5078	1123	HMG907	1122	HR-47	2016	HS40025	2016
HEPC3800L	1808	HEP-S0006	2023	HF-0SW05	1104	HG5079	1123	HMG907A	1122	HR47	2016	HS40026	2030
HEPC3800P	1808	HEPS0006	2023	HFOW05	1104	HG5085	1123	HMG908	1122	HR-48	2009	HS-40027	2023
HEPC4001P	2401	HEPS0008	2058	HF-1A	1104	HG5088	1123	HMG993	1122	HR48	2009	HS-40030	2016
HEPC4052P	007	HEPS0010	2058	HF-1S334	562	HG5808	1123	HMG3067	1122	HR-58	2016	HS-40031	2023
HEP-C4102P	038	HEPS0011	2009	HF-1S339	562	HG[illegible]1	1104	HMG3068	1122	HR58	2016	HS-40035	2023
HEPC4102P	038	HEPS0015	2009	HF2	2009	HGR2	1104	HMG3123	1122	HR-59	2016	HS-40037	1617
HEPC6110P	1770	HEP-S0016	2016	HF3	2009	HGR3	1104	HMG3124	1122	HR59	2016	HS-40039	2009
HEPC6113P	1771	HEPS0016	2016	HF4	2009	HGR4	1104	HMG3593	1122	HR-60	2009	HS-40040	2023
HEPC6114P	1772	HEPS0017	2058	HF5	2009	HGR-5	1104	HMG3596	1122	HR60	2016	HS-40044	1617
HEPC6130P	1723	HEPS0020	2016	HF6	2009	HGR5	1101	HMG4147	1122	HR62	2009	HS-40045	2016
HEPC6131P	1723	HEP-S0021	1617	HF7	2009	HG-R10	1104	HMG9010	1122	HR63	2009	HS-40046	1617
HEPC7400P	1801	HEPS0021	2016	HF8	2009	HGR-10	1104	HN-00002	1122	HR64	2009	HS-40047	2016
HEPC7401P	1801	HEPS0022	2009	HF9	2030	HGR10	1104	HN-00003	1123	HR65	2009	HS-40049	2016
HEPC7404P	1802	HEP-S0023	2016	HF11	2017	HGR-20	1104	HN-00005	563	HR66	2009	HS40049	2016
HEPC7408P	1822	HEPS0023	2016	HF15	2017	HGR20	1122	HN-00008	1104	HR-68	2020	HS-40050	2023
HEPC7447AP	1805	HEP-S0024	2016	HF17	2016	HGR-30	1104	HN-00012	562	HR-69	2017	HS-40053	2023
HEPC7447P	1805	HEPS0024	2016	HF47	2023	HG[illegible]30	1122	HN-00018	1101	HR69	2020	HS-40054	2009
HEPC74[illegible]AP	1808	HEPS0025	2009	HF50	2009	HGP-40	1104	HN-00024	562	HR70	2027	HS-40055	2016
HEPC7490P	1808	HEP-S0026	2023	HF57	2020	HGR40	1103	HN-00032	1104	HR-71	2023	HS-40057	2023
HEPD0002	075	HEPS0026	2023	HF58	2027	HGR-60	1104	HN-0047	1122	HR71	2023	HSC-1	1114
HEPF0010	2035	HEP-S0030	1617	HF-10024	1123	HGR60	1104	HO91	1123	HR76	2016	HSC1	1114
HEP-F0015	2035	HEPS0030	2009	HF-20004	562	HI03SC	1000	HO99	1101	HR77	2058	HSCH-1001	1104
HEPF0015	2035	HEP-S0031	2023	HF-20008	1123	HI03SD	1000	HP-5A	1104	HR78	2058	HSFD-1	1114
HEP-F0021	2035	HEPS0031	2023	HF-20011	562	HI03SG	1000	HP80	1123	HR79	2016	HSFD-1A	1104
HEPF0021	2035	HEP-S0032	2023	HF-20014	1122	HI03SH	1000	HP205	1104	HR80	2016	HSFD-1Z	1104
HEPF1036	2035	HEPS0032	2023	HF-20032	1104	HI03SS	1000	HP5082-0103	1122	HR81	2030	HSFD-1Z(SONY	
HEPP0003	2016	HEP-S0033	2058	HF20032	1122	HI13SC	1000	HP5082-0132	1122	HR87	2058	STANDBY	1104
HEPP3002	134	HEPS0033	2058	HF-20034	1122	HI13SD	1000	HP5082-0133	1122	HR-200	1143	HSP1001	1122
HEPR0050	1104	HEPS0034	1617	HF-20041	563	HI13SG	1000	HP5082-0134	1122	HR600	1114	HSP1007	1122
HEPR0051	1104	HEPS0035	2009	HF-20042	1104	HI13SH	1000	HP5082-2800	1122	HR800	1114	HSP1010	1122
HEPR0052	1104	HEPS0036	2009	HF-20047	1104	HI13SS	1000	HP5082-3001	1122	HR1000	1114	HSP1011	1122
HEPR0053	1104	HEPS0037	2023	HF-20048	1122	HI23SC	1000	HP5082-3080	1122	HRP22	1104	HSP1013	1122
HEPR0054	1104	HEPS0038	2009	HF-20050	1104	HI23SD	1000	HP35860A	1617	HRP32	1104	HSP1020	1102
HEPR0055	1114	HEPS0040	2009	HF-20052	1104	HI23SG	1000	HR-05A	1104	HS25-1B	1104	HST5001	2016
HEPR0056	1114	HEPS3045	2017	HF-20060	1122	HI23SH	1000	HR-2A(PENNCREST)	1104	HS1001	1104	HST-9201	2041
HEPR0070	1143	HEPS3060	2020	HF20060	1122	HI23SS	1000	HR-5A	1104	HS1002	1104	HST-9205	2041
HEPR0071	1143	HEPS3061	2020	HF-20061	1122	HI33SD	1000	HR5A	1104	HS1003	1104	HST-9206	2041
HEPR0072	1144	HEP-S5014	2030	HF-20063	1122	HI33SG	1000	HR5A8E	1104	HS1004	1122	HST-9210	2041
HEPR0080	1114	HEPS5021	2055	HF-20064	1122	HI33SH	1000	HR-5AX2	1104	HS1005	1122	HT100	2023
HEPR0081	1114	HEPS5026	2030	HF-20065	562	HI33SS	1000	HR-5B	1104	HS1006	1122	HT101	2023
HEPR0082	1114	HEP-S7002	2041	HF20066	1104	HI43SC	1000	HR5B	1104	HS1007	1104	HT102	2009
HEPR0084	1114	HEPS7002	2041	HF-20067	1104	HI43SD	1000	HR10	1104	HS1008	1104	HT103	2009
HEPR0086	1114	HEPS7003	2043	HF-20071	1114	HI43SG	1000	HR-11	1617	HS1009	1104	HT400	1617
HEPR0090	1114	HEP-S7004	2041	HF-20083	1104	HI43SH	1000	HR11	1104	HS1010	1104	HT401	1617
HEPR0091	1114	HEPS7005	2055	HF-20084	1104	HI43SS	1000	HR-11A	1617	HS1011	1104	HT30491C	2030
HEPR0092	1114	HEPS7006	2055	HF-200[illegible]	1123	HIF	1104	HR11A	2009	HS1012	1104	HT30494	2041
HEPR0094	1114	HEPS9150	2068	HF-20095	1122	HIT9014N-C	2009	HR-11B	1617	HS1020	1104	HT30494X	2041
HEPR0096	1114	HEP-Z0210	565	HF-20123	1122	HK-00049	2035	HR11B	2009	HS-1168	1617	HT31041CO	2016
HEPR0097	1114	HEPZ0210	565	HF-20124	1122	HK-003[illegible]0	2035	HR-12	2030	HS-1225	2016	HT36441B	2016
HEPR0093	1114	HEPZ0210A	565	HF200191A	2035	HKT-158	2009	HR-13	1617	HS-1226	2016	HT38281D	2009

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HT104861	2030	HT304581B-O	2009	HT309291C	2016	HV-25(DIODE)	1122	HZ-12ABC	563	INC61684	1101	IP7812	1771
HT104861A	2030	HT304581C	1617	HT309291E	2016	HV25(HITACHI)	1122	HZ12B	563	INJ33349	1123	IP7815	1772
HT104861B	2030	HT304601B0	2009	HT309301C	2016	HV-25(RCA)	1122	HZ-12B2	563	INJ60034	1123	IR2A	1104
HT104941B-0	2023	HT304601BO	2009	HT309301D	2016	HV-26	1104	HZ-12C	563	INJ60284	1123	IR2E	1104
HT104941B-O	2023	HT304601C0	2016	HT309301E	2016	HV-26G	1104	HZ12C	563	INJ61224	1123	(IR)2SA564A	2023
HT104941C-0	2023	HT304601CO	2009	HT309301F	2016	HV-27	1122	HZ-15	564	INJ61225	561	(IR)2SC281B	2016
HT104941C0	2023	HT304611B	2016	HT309451L0	2009	HV46#OR#(DIODE)	1104	HZ15	564	INJ61227	1104	(IR)2SC372	2058
HT104941C-O	2023	HT304861	2030	HT309451R0	2009	HV-46GR	1104	HZ15(H)	564	INJ61433	1122	(IR)2SC373	2016
HT104942A	2023	HT304861A	2030	HT309452AO	2009	HV-100	1104	HZ15-1	564	INJ61434	1104	(IR)2SC380AO	2058
HT104951A-0	2023	HT304861B	1617	HT309680B	2030	HV-801	1123	HZ15-3	564	INJ61675	1123	(IR)2SC403A	2016
HT104951B	2023	HT304941X	2041	HT309714A-0	2030	HW9.1	562	HZ15H	564	INJ61677	1122	(IR)2SC454B	2009
HT104951B-0	2023	HT304961C-0	2017	HT309841B0	2030	HW9.1A	562	HZ15L	564	INJ61725	1122	(IR)2SC458B	2009
HT104951C	2023	HT304961C-O	2017	HT309841BO	2030	HW9.1B	562	HZ15PB	564	INJ61726	1104	(IR)2SC460B	2058
HT105611	2023	HT304971A	2030	HT309842A-0	1617	HW9.81B	562	HZ312A	563	INJ70973	1123	(IR)2SC535B	2016
HT105611A	2023	HT304971A0	2030	HT309842A-O	2030	HW11B	563	HZ5230	565	INJ70980	1123	(IR)2SC536	2016
HT105611B	2023	HT304971AO	2030	HT310001F	2016	HW12	563	HZS4.7NB2-1TJ	565	INMPD4011BC	2411	(IR)2SC537B	2009
HT105611B0	2023	HT304971B	2030	HT310002A	2016	HW12A	563	I02A978120	1771	INMPD4011BC		(IR)2SC538A	2016
HT105611BO	2023	HT305351B0	2016	HT311621B	2020	HW12B	563	I53D040010	2401	(,UPD4011BC)	2411	(IR)2SC644	2016
HT105611C	2023	HT305351C0	2016	HT312131C0	2009	HW15	564	I55D040010	2401	INMPD4013BC	2413	(IR)2SC682A	2058
HT105612B	2023	HT305351CO	2009	HT313171R	2009	HW15A	564	I538	1104	INUPD4011BC	2411	(IR)2SC710	2009
HT105621B-0	2023	HT305361E	2009	HT313172A	2009	HW15B	564	I964(6	1122	INUPD4013BC	2413	(IR)2SC717	2009
HT105621B0	2023	HT305361G	2009	HT313181C	2030	HX50001	2016	I9623	2016	IP20-0001	2009	(IR)2SC772	2058
HT105621BO	2023	HT305371E	1617	HT313271T	2016	HX50002	1617	I9631	2030	IP20-0002	2009	(IR)2SC828A	2058
HT105641C	2023	HT305642B	2023	HT313272B	2016	HX50003	2016	I473688-1	1067	IP20-0006	2009	(IR)2SC829B	2009
HT105641D	2023	HT306441	2009	HT313591CO	2009	HX-50063	2009	IC-20	1740	IP20-0007	2020	(IR)2SC838	2009
HT105641H	2023	HT306441A	2016	HT313592B	2009	HX-50072	2009	IC-20(PHILCO)	1740	IP20-006	2058	(IR)2SC945	2016
HT105642B	2023	HT306441A0	2030	HT316751M0	2009	HX-50091	2058	IC-74(ELCOM)	1801	IP20-0012	2035	IR5GZ61	1114
HT105642CO	2023	HT306441AO	2030	HT318291D0	1617	HX-50092	2009	IC-80(ELCOM)	1801	IP20-0015	1123	IR5JA	1123
HT106731B	2023	HT306441B	1617	HT31909100	2009	HX-50094	2023	IC-84(ELCOM)	1802	IP20-0016	1123	IR10E6J	1104
HT106731B0	2023	HT306441B-0	1617	HT401191	2041	HX-50097	2009	IC-98(ELCOM)	1808	IP20-0018	564	IR10E6X	1104
HT107211T	2023	HT306441B0	1617	HT401191A	2041	HX-50102	1067	IC-101(ELCOM)	1805	IP20-0019	562	IR20	1104
HT107331Q0	2023	HT306441B-O	2030	HT401191B	2041	HX-50105	2023	IC-102(ELCOM)	1822	IP20-0020	1123	IR30DF	1114
HT303620B	1617	HT306441BO	2030	HT401193A0	2041	HX-50107	2009	IC-520(ELCOM)	1723	IP20-0021	1122	IR106A1	1067
HT303711A	2009	HT306441C	1617	HT402352B	2020	HX-50108	2009	IC-555	1723	IP20-0022	1114	IR106A1-C	1067
HT303711A-0	2016	HT306441C-0	1617	HT403131E0	2020	HX-50110	2016	IC-1489	2521	IP20-0025	1103	IR106A2	1067
HT303711A0	2009	HT306441C-O	2030	HT403131EO	2020	HX-50112	2023	IC4001BP	2401	IP20-0028	2041	IR106A3	1067
HT303711A-O	2009	HT306442A	2016	HT403132AO	2020	HX-50113	2009	IC-7400	1801	IP20-0029	2009	IR106A4	1067
HT303711AO	2009	HT306442B	2016	HT403151E	2020	HX-50128	2023	IC-7404	1802	IP20-0032	2009	IR106A41	1067
HT303711B	2009	HT306451	2016	HT403152A	2020	HX-50161	2009	IC-7408	1822	IP20-0034	2009	IR106B1	1067
HT303711B-0	2009	HT306451A	2016	HT600011F	2023	HX-50172	1617	IC-7408N	1822	IP20-0035	2035	IR106B1-C	1067
HT303711B0	2009	HT306451B	2016	HT600011H	2023	HX-50176	2023	IC743040	2058	IP20-0036	2020	IR106B2	1067
HT303711B-O	2009	HT306451H	2009	HT800011F	1617	HX-50181	2009	IC743041	2058	IP20-0037	2058	IR106B3	1067
HT303711BO	2009	HT306681C	2016	HT800011G	1617	HY3045801C	1617	IC743042	1617	IP20-0038	2009	IR106B4	1067
HT303711C	2016	HT306962A-0	2016	HT800011H	1617	HZ5	565	IC743043	2023	IP20-0039	2009	IR106B41	1067
HT303720A	2016	HT306962A-O	2009	HT800011K	1617	HZ5(H)	565	IC743044	2009	IP20-0040	2009	IR106C1	1020
HT303721-0	1617	HT307321A	1617	HT800012F	2030	HZ5B	565	IC743046	2035	IP20-0041	2009	IR106C1-C	1020
HT303721D	1617	HT307321B-0	1617	HT800191H	2030	HZ5B-1	565	IC743047	562	IP20-0046	2023	IR106C2	1020
HT303730	1617	HT307321B-O	2009	HT3036201	2009	HZ5B-2	565	IC743048	1104	IP20-0054	1102	IR106C3	1020
HT303730A	1617	HT307322A	2016	HT3036210	1617	HZ5C	565	IC743049	1122	IP20-0060	1123	IR106C4	1020
HT303801	2016	HT307331B	1617	HT3037010	2016	HZ5C-1	565	IC743050	1123	IP20-0061	1122	IR106C41	1020
HT303801A	2016	HT307331C	2016	HT3037201	2016	HZ-5C1	565	IC743051	1122	IP20-0083	2020	IR106D1	1020
HT303801A0	2016	HT307331C0	2009	HT3037201A	2016	HZ5C1	565	ICR1005	1104	IP20-0086	565	IR106D2	1020
HT303801AO	2009	HT307331CO	2016	HT3037201B	2016	HZ5C1TD	565	ID100	1067	IP20-0110	2016	IR106D3	1020
HT303801B	2016	HT307341	2030	HT3037210	1617	HZ5C-2	565	ID101	1067	IP20-0120	1104	IR106D4	1020
HT303801B-0	2016	HT307341A	2030	HT3037210-0	1617	HZ5C-3	565	ID102	1067	IP20-0122	2009	IR106D41	1020
HT303801B0	2016	HT307341B	2009	HT3037210-O	2009	HZ6C2	561	ID103	1067	IP20-0145	1122	IR106F1	1067
HT303801B-O	2009	HT307341C-0	2009	HT3037310	2016	HZ6.2PB	561	ID104	1067	IP20-0159	2023	IR106F2	1067
HT303801BO	2009	HT307341C-O	2030	HT3038013-B	2016	HZ-9	562	ID105	1020	IP20-0161	705	IR106F3	1067
HT303801C	2016	HT307342B	2030	HT3073310	2009	HZ9	562	ID106	1020	IP20-0164	1114	IR106F4	1067
HT303801C0	2016	HT307342C	2009	HT3082810	2030	HZ9(H)	562	IDAZ824	561	IP20-0165	2009	IR106F41	1067
HT303801CO	2009	HT307720B	2016	HT6000210	2023	HZ-9A	562	IDAZ824A	561	IP20-0167	1104	IR106Q1	1067
HT30387100	2016	HT307721C	2016	HT8000710	1104	HZ9A	562	IDAZ824B	561	IP20-0179	2009	IR106Q2	1067
HT303941	2016	HT307721D	2016	HT8001210	2030	HZ-9B	562	IDAZ3398	565	IP20-0184	1122	IR106Q3	1067
HT303941A	2016	HT307902B	2020	HT8001310	2030	HZ9B	562	IDAZ3398A	565	IP20-0191	2009	IR106Q4	1067
HT303941B	2016	HT308281B	2009	HT8001610	2016	HZ9B-2	562	IDAZ3398B	565	IP20-0192	2023	IR106Q41	1067
HT304508K	2009	HT308281BO	2009	HT8001710	2016	HZ9B3	562	IDAZ3399	565	IP20-0203	561	IR106Y1	1067
HT304531	1617	HT308281C	2009	HT8001810	1617	HZ9BZ	562	IDAZ3399A	565	IP20-0205	1801	IR106Y1-C	1067
HT304531A	1617	HT308281D	2009	HT9000310	2041	HZ-9C	562	IDAZ3403	563	IP20-0212	2020	IR106Y2	1067
HT304531B	1617	HT308281G	2009	HT9000410-0	2041	HZ9C-2	562	IDAZ3403A	563	IP20-0213	2023	IR106Y3	1067
HT304531C	1617	HT308281H	2009	HT9000410-O	2041	HZ9C2	562	IDAZ3403B	563	IP20-0214	2009	IR106Y4	1067
HT304540A0	2016	HT308281O	2009	HT30373100	1617	HZ-9C3	562	IDAZ3403C	563	IP20-0216	1122	IR413	2055
HT304540AO	2009	HT308282A	2009	HT30387100	2016	HZ9C-3	562	IDAZ3404	564	IP20-0217	2023	IR1603	1020
HT304540B0	1617	HT308282A-0	2009	HT30733100	2016	HZ9H	562	IDAZ3404A	564	IP20-0231	2009	IRC5	1067
HT304540BO	2009	HT308282A-O	2009	HT30945120	2009	HZ9L	562	IDAZ3404B	564	IP20-0282	1122	IRC10	1067
HT304580	1617	HT308282B	2016	HT31909100	2009	HZ9.1PB	562	IE12Z5	563	IP20-0283	1123	IRC20	1067
HT304580A	1617	HT308291A	1617	HT32362280	2016	HZ11C25	563	IE460B	2058	IP20-0305	2035	IRF511	2072
HT304580B	1617	HT308291A-0	2016	HV0000105-0	1104	HZ-12	563	IE850	2009	IP20-0310	1801	IRF513	2072
HT304580C0	1617	HT308291A-O	1617	HV0000202	1123	HZ-12(A)	563	IGL78M05	1770	IP20-0323	2020	IRF523	2072
HT304580CO	2009	HT308291B	1617	HV0000302	2016	HZ12(A)	563	IGLA6458DF	038	IP100	1067	IRFE100	2035
HT304580K	1617	HT308291B-0	1617	HV0000705	1104	HZ-12(B)	563	IGLC4011	2411	IP101	1067	IRTR20	2023
HT304580Y0	1617	HT308291B0	2009	HV00001050	1122	HZ12(B)	563	IGLC4011B	2411	IP102	1067	IRTR22	2009
HT304580YO	2009	HT308291B-O	2009	HV-15	1123	HZ-12(C)	563	IGLC4013B	2413	IP103	1067	IRTR24	2009
HT304580Z	1617	HT308291BO	2009	HV15	1123	HZ12(C)	563	IJNJM4558DM	038	IP104	1067	IRTR26	2041
HT304581	1617	HT308291C	2009	HV-23BL	1123	HZ-12A	563	ILM340T12	1771	IP105	1020	IRTR31	2023
HT304581A	1617	HT308291D0	2009	HV-23G(BL)	1122	HZ12A	563	ILMC14013B	2413	IP106	1020	IRTR-51	2016
HT304581B	1617	HT308301B0	2020	HV-25	1122	HZ-12A3	563	IM4004	1103	IP7805	1770	IRTR51	2016
HT304581B-0	1617	HT309002A0	2016	HV25	1617	HZ12A-3	563	IN60-1	1123	IP7805A	1770	IRTR52	2023

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IR-TR53	2030	ITT895	2009	J1000-7447	1805	J241179	561	JD-SD1D	1104	JZ15C	564	K11	2035
IRTR53	2030	ITT920	1122	J1000-7490	1808	J241182	1122	JDSD1D	1104	K1A5	1104	K12	2035
IRTR-55	2017	ITT921	1122	J1000-NE555	1723	J241188	2016	JD-SD1Z	1104	K1B5	1104	K12-O(1-GATE)	2035
IRTR55	2017	ITT973	2023	J2441	1123	J241189	2016	JE90NF	2009	K1C5	1104	K13	2035
IRTR57	2020	ITT975	2009	J9680	2023	J241241	2020	JE1033B	2035	K1D5	1104	K14-0066-6	2058
IRTR-59	2041	ITT2001	1122	J9697	2023	J241245	1123	JE9011B	2016	K1E5	1104	K14-0066-12	2009
IRTR59	2041	ITT2002	1122	J20437	1104	J241251	2009	JE9011C	2016	K1F5	1104	K14-0066-13	2030
IRTR-61	2041	ITT3001	1122	J20438	563	J241252	2020	JE9011D	2009	K1G5	1104	K15	2035
IRTR61	2041	ITT3002	1102	J24262	561	J241253	2023	JE9011E	2009	K1H5	1104	K15-GR(1-GATE)	2035
IRTR-62	2009	ITT3003	1122	J24458	1617	J241255	2030	JE9011F	2009	K1K5	1114	K15-O(1-GATE)	2035
IRTR62	1617	ITT4000G	1101	J24561	2016	J241256	2030	JE9011G	1617	K1M5	1114	K16HA	2035
IRTR63	1617	ITT5059	1104	J24562	2016	J241259	2023	JE9011H	2009	K1.3G22/1A	1173	K17(2S)	2035
IRTR-64	2017	ITT5060	1102	J24563	2016	J241260	1104	JE9011I	2009	K1.3G22-1A	1171	K17-O	2035
IRTR-68	2058	ITT5061	1103	J24564	2009	J241275	026	JE9012D	2023	K1.3G22A	1104	K17-O(1-GATE)	2035
IRTR68	2058	ITT5062	1104	J24565	2009	J310249	1617	JE9012E	2023	K2A5	1104	K17-OR	2035
IRTR-70	2058	ITT7215	1122	J24567	1123	J310250	1617	JE9012F	2023	K2B5	1104	K17A	2035
IRTR70	2016	ITT7400N	1801	J24570	1104	J320020	1104	JE9012G	2023	K2C5	1104	K17B	2035
IRTR-71	2016	ITT7401N	1801	J24596	2016	J320041	1123	JE9012H	2023	K2CDP221B	1171	K17BL	2035
IRTR71	2016	ITT7404N	1802	J24624	1617	JA101	2023	JE9013	2009	K2D5	1104	K17GR	2035
IRTR76	2020	ITT7408N	1822	J24625	1617	JA101P	2023	JE9013D	2009	K2DP12	1104	K17O	2035
IRTR77	2027	ITT7447AN	1805	J24628	1123	JA101Q	2023	JE9013E	2009	K2E5	1104	K17R	2035
IRTR-80	2016	ITT7490N	1808	J24630	1104	JA1050	2023	JE9013F	2009	K2F5	1104	K17Y	2035
IRTR80	2016	ITT330419	1122	J24631	561	JA1050G	2023	JE9013G	2009	K2G	1104	K19	2035
IRTR-83	2016	ITT412142	1122	J24632	562	JA1050W	2023	JE9013H	2009	K2G5	1104	K19-14	2035
IRTR83	2016	ITTC4049BP	2449	J24635	2016	JA1200	2009	JE9014	2009	K2H5	1114	K19-BL	2035
IRTR86	1617	IX0069CE	2401	J24636	2016	JA1350	2009	JE9014A	2009	K2K5	1114	K19-GR	2035
IRTR87	2030	IX0638CE	1770	J24637	2016	JA1350A	2009	JE9014C	2009	K2M5	1114	K19-Y	2035
IRTR92	2020	J-05	1104	J24640	2023	JA1350B	2016	JE9014D	2016	K3	1123	K19A	2035
IRTR93	2055	J-1	1104	J24641	1617	JA1350W	2016	JE9015	2023	K3B5	1104	K19B	2035
IRTR-95	2016	J-2	1104	J24643	1123	JA1350Y	2016	JE9015A	2023	K3C5	1104	K19BB	2035
IRTR95	2016	J2-4570	1104	J24645	1104	JA-1555	1723	JE9015C	2023	K3D5	1104	K19BL	2035
IRTRFE100	2035	J-4	1104	J24647	1104	JA1600G	2009	JE9016	2016	K3F5	1104	K19FET	2035
IRW106A1	1067	J4-1000	1801	J24658	2009	JA7010	2009	JE9016D	2016	K3G5	1104	K19GB	2035
IRW106C1	1020	J4-1004	1802	J24701	2016	JA-H	2009	JE9016E	2016	K3H5	1114	K19GE	2035
IRW106Y1	1067	J4-1047	1805	J24752	1617	JA-KCDP	1114	JE9016F	2016	K3K5	1114	K19GR(2S)	2035
IS28	1067	J4-1090	1808	J24753	1617	JA-L	2009	JE9016G	2016	K3M5	1114	K19H	2035
IS-446D	1122	J4-1215	007	J24755	1122	JAM702C	1104	JE9016H	2016	K4-505	2023	K19K	2035
IS-1212	565	J4-1555	1723	J24756	1104	JB-00030	1104	JE9016I	2016	K4-506	1617	K19V	2035
ISV121	1122	J4-1600	1617	J24812	2016	JB00030	1144	JE9018D	2016	K4-507	1617	K19Y(2S)	2035
IT10D4K	1104	J4-1601	1114	J24813	2016	JB00036	1171	JE9018E	2016	K4-510	2016	K22Y	2035
IT22	1123	J4-1602	1144	J24814	2016	JB-BB1A	1104	JE9018F	2016	K4-525	2041	K23	2035
IT22A	1123	J4-1610	1122	J24817	2009	JC-00012	1104	JE9018G	2016	K4-550	1123	K23A(2S)	2035
IT22AM	1123	J4-1615	565	J24820	1123	JC-00014	1104	JE9018H	2016	K4-555	1104	K24	2035
IT22B	1123	J4-1619	561	J24832	2023	JC-00025	1104	JE9018I	2016	K4-557	1104	K24(1-GATE)	2035
IT23	1123	J4-1620	562	J24838	1123	JC-00028	1104	JE9100A	2009	K4-584	1067	K24C	2035
IT23A	1123	J4-1622	563	J24842	2009	JC-00032	1104	JE9112B	2023	K4-586(TRIAC)	1000	K24C(1-GATE)	2035
IT23G	1123	J4-1626	2009	J24843	2009	JC00032	1144	JE9112C	2023	K4-590	007	K24D	2035
IT23S	1123	J4-1628	1617	J24844	2009	JC-00033	1104	JE9113C	2009	K4-632	2035	K24D(1-GATE)	2035
IT40	1122	J4-1630	1617	J24845	2009	JC-00035	1104	JF-1033	2035	K4-634	2035	K24DR	2035
IT108	2035	J4-1632	2023	J24846	2009	JC-00037	1104	JF1033	2035	K4A5	1104	K24DR(1-GATE)	2035
IT120	2009	J4-1636	2009	J24852	2016	JC-00042	1104	JF1033B	2035	K4B5	1104	K24E	2035
IT121	2009	J4-1640	2041	J24855	2009	JC-00044	1104	JF1033G	2035	K4C5	1104	K24E(1-GATE)	2035
IT122	2016	J4-1644	2016	J24863	2016	JC-00045	1104	JF1033S	2035	K4D5	1104	K24F	2035
IT243	565	J4-1645	2023	J24871	1104	JC-00047	1101	JL-40A	1122	K4E5	1104	K24F(1-GATE)	2035
IT261	1123	J4-1649	2030	J24874	2009	JC-00049	1102	JL40A	1122	K4F5	1104	K24G	2035
IT262	1123	J4-1650	2023	J24875	2016	JC00049	1104	JL41A	1104	K4G5	1104	K24G(1-GATE)	2035
IT263	1123	J4-1654	2020	J24877	1104	JC00050	1104	JL41AM	1104	K4H5	1114	K25	2035
IT918	2016	J4-1664	2020	J24878	2016	JC-00051	1104	JM40	1122	K4K5	1114	K25C	2035
IT918A	2016	J4-1710	2035	J24903	2016	JC-00055	1102	JM401	1122	K4M5	1114	K25D	2035
IT929	2016	J4-1711	2035	J24904	2016	JC-00059	1114	JNJ61673	2035	K5A5	1104	K25E	2035
IT930	2016	J4-1725	1067	J24905	2016	JC-10D1	1104	JP575005	1123	K5B5	1104	K25ET	2035
IT2218	2009	J4-1730	1000	J24906	2009	JC501	2009	JP575995	1123	K5C5	1104	K25F	2035
IT2219	2009	J4-1730(TRIAC)	1000	J24907	2009	JC501-0	2009	JSP7001	2058	K5D5	1104	K25G	2035
IT2221	2009	J-6	1104	J24909	2009	JC501P	2009	JSP7001B	2009	K5E5	1104	K30-O(1-GATE)	2035
IT2222	2009	J-8	1114	J24911	1123	JC501Q	2009	JSP7005	2016	K5F5	1104	K31C(2S)	2035
ITC103-1	1067	J-10	1114	J24912	1122	JC501R	2009	JSP7006	2016	K5G5	1104	K32	2035
ITC103-5	1020	J100	1104	J24913	1123	JC-D516E	1104	JT-1601-40	1617	K5H5	1114	K32B	2035
ITC103-6	1020	J107	2016	J24914	1123	JC-K505	1104	JT-E1014	1123	K5K5	1114	K33	2035
ITC918A	2016	J108	2016	J24915	2016	JCN1	1104	JT-E1024D	1104	K5M5	1114	K33D	2035
ITE4416	2035	J139A	1617	J24916	2009	JCN2	1104	JT-E1031	1123	K6	1123	K33E(2S)	2035
ITH61	1114	J187	2016	J24920	1104	JCN3	1104	JT-E1064	1104	K6A5	1114	K33F(2S)	2035
ITS5817	1141	J241	1123	J24921	2016	JCN4	1104	JZ6.2	561	K6B5	1114	K33H	2035
ITS5818	1141	J242	1123	J24923	2016	JCN5	1104	JZ6.2A	561	K6G5	1114	K34	2035
ITT33	1122	J243	1123	J24932	2016	JCN6	1104	JZ6.2B	561	K6H5	1114	K35	2035
ITT44	1122	J304	2035	J24933	2016	JCN7	1114	JZ6.2C	561	K7A5	1114	K35(1-GATE)	2035
ITT73N	1122	J308	2035	J24935	1104	JC-5D-1X	1104	JZ6.2D	561	K7B5	1114	K35-0	2035
ITT102	1123	J309	2035	J24939	1104	JC-5D-1Z	1104	JZ9.1	562	K7C5	1114	K35-0(1-GATE)	2035
ITT142	1122	J623	2016	J24940	1104	JC-SD1Z	1104	JZ9.1A	562	K7G5	1114	K35-1	2035
ITT181-1	1122	J624	2016	J41642	2041	JC-SG005	1104	JZ9.1B	562	K7H5	1114	K35-1(1-GATE)	2035
ITT200	1122	J626	2016	J41645	2023	JC-V03C	1104	JZ9.1C	562	K7K5	1114	K35-2	2035
ITT301	1123	J627	2016	J101183	1104	JCV-2	1104	JZ12	563	K7M5	1114	K35-2(1-GATE)	2035
ITT350	1104	J629	2016	J241054	2009	JCV2	1104	JZ12A	563	K8A5	1114	K35A	2035
ITT413	1122	J630	2016	J241099	2009	JCV-3	1104	JZ12B	563	K8B5	1114	K35A(1-GATE)	2035
ITT417	563	J685	1123	J241100	1104	JCV3	1104	JZ12C	563	K8G5	1114	K35BL	2035
ITT600	1122	J961B(G.E.)	1617	J241102	1104	JCV7	1114	JZ15	564	K8H5	1114	K35BL(1-GATE)	2035
ITT601	1122	J1000-7400	1801	J241142	1104	JD-00040	1104	JZ15A	564	K8K5	1114	K35C	2035
ITT718	1123	J1000-7404	1802	J241177	2016	JD-BB1A	1104	JZ15B	564	K8M5	1114	K35C(1-GATE)	2035

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K35GN	2035	K107-2	2035	K8532799	1104	KD2103	1104	KS2047A	565	KSD1052	2041	KTD8800	2020
K35GN(1-GATE)	2035	K107-4	2035	K8533058-1	1104	KD2104	1104	KS2047B	565	KSD1053	2041	KTR0710C	2009
K35R	2035	K112D	1101	KA1Z25	2030	KD2118	2030	KS2051A	565	KSD1054	2041	KTR0815C	2009
K35R(1-GATE)	2035	K115J511-2	1123	KA562-Y	2023	KD2119	2016	KS2051B	565	KSD1055	2041	KTR0839C	2009
K35Y	2035	K118J966-1	1101	KA1015-O	2023	KD2503	561	KS2062A	561	KSD1056	2041	KTR1687C	2058
K35Y(1-GATE)	2035	K118J966-2	1101	KA4559	2035	KD2504	562	KS2062B	561	KSD1057	2041	KTTA1015O	2023
K37	2035	K118J966-3	1101	KB102	1122	KD2505	563	KS2091A	562	KSD1058	2041	KX-1	1122
K37H	2035	K118J966-4	1101	KB-165	1122	KD5000	2016	KS2091B	562	KSD2201	2041	KZ62A	561
K40	2035	K118J9663	1101	KB-182	1104	KDD-0013	1123	KS2120A	563	KSD2202	2041	KZ91A	562
K40-3	2035	K119	2035	KB265A	1122	KDD0015	562	KS2120B	563	KSKE12C500	1114	L05-E	1114
K40A	2035	K120	2062	KB8339	1617	KDD0032	1104	KS2150A	564	KSKE40C200	1104	L1/2H	1122
K40B	2035	K122D	1101	KB8416	2009	KDD0041	1122	KS2150B	564	KSKE40C500	1104	L1/3H	1122
K40C	2035	K152	2035	KBP-005	1171	KD51553	1122	KS20967-L1	1801	KSKE125C200	1114	L3/2H	1104
K40C(JAPAN)	2035	K152-3	2035	KBP005	1171	KD51554	1122	KS20967-L2	1802	KT218	2009	L4	2016
K40D	2035	K152LA	2035	KBP01	1171	KD51555	1122	KS21282-L1	1822	KT1815-GR	2009	L5	2016
K41	2035	K168D	2035	KBP04	1173	KE-262	1104	KSA495Y	2023	KTA473	2027	L6	2016
K41C	2035	K168F	2035	KBPC10-005	1185	KE3684	2062	KSA539	2023	KTA473-O	2027	L6/2H	1104
K41D	2035	K170	2035	KBPS-005	1101	KE3685	2062	KSA539-0	2023	KTA562(Y)	2023	L7	2016
K41E	2035	K192	2035	KC0-8CP	1104	KE3687	2062	KSA539-O	2023	KTA562-O	2023	L8/2H	1104
K41E1	2035	K194	2035	KC0-8CP11/1+12/1	1104	KE4220	2062	KSA539-Y	2023	KTA562-TM	2023	L32H	1104
K41F	2035	K195H	2062	KC06E11/8	1104	KE4416	2035	KSA539Y	2023	KTA562-Y	2023	L62H	1104
K42	2035	K196R	2035	KC08C11/8	1104	KE5103	2062	KSA542-0	2023	KTA562O	2023	L78M05	1770
K42(2S)	2035	K197	2035	KC08C11/10	1104	KE5105	2035	KSA542-O	2023	KTA562TM	2023	L78M12	1771
K42-CM1	2035	K197YC	2035	KC08C21/5	1104	KGE41007	1104	KSA542Y	2023	KTA562TM-O	2023	L78M12-RA	1771
K4[illegible] CM1	2035	K197YD	2035	KC08C22/19	1104	KGE41054	2009	KSA562TM	2023	KTA562TM-O(TA)	2023	L78M12CV	1771
K43	2035	K197YE	2035	KC08C215	1104	KGE41055	2009	KSA642-0	2023	KTA562TM-Y	2023	L78M12RL	1771
K43-3	2035	K200	1104	KC08C221	1104	KGE41959	1123	KSA642-O	2023	KTA562TMY	2023	L78N12	1771
K43-4	2035	K212	2062	KC08C1110	1104	KGE46109	1122	KSA642-Y	2023	KTA562TM-Y-O	2023	L78N12-RA	1771
K43-OR	2035	K212AE	2062	KC08C2219	1171	KGE46146	2009	KSA642O	2023	KTA562Y	2023	L82H	1114
K43A	2035	K212E	2062	KC0911/8	1104	KGE46338	2009	KSA708	2023	KTA950-O	2023	L123CB	1740
K43B	2035	K304	2035	KC06911	1104	KGE46465	1122	KSA708-O	2023	KTA950-Y	2023	L842	2016
K43C	2035	K882	1123	KC0.8C22/1	1171	KIA7205AP	705	KSA708-Y	2023	KTA950Y	2023	L4000KS	1000
K43D	2035	K1616	1101	KC0.8CP	1104	KIA7205P	705	KSA708Y	2023	KTA1015	2023	L7812CV	1771
K43E	2035	K1616AC	1101	KC0.8CP11	1104	KLH704	2009	KSA733	2023	KTA1015(O)	2023	L7815CV	1772
K43F	2035	K1617	1101	KC0.8CP11/1	1104	KLH1422	2009	KSA733(Y)	2023	KTA1015(Y)	2023	L-612099	1822
K43H	2035	K1617AC	1101	KC0.8CP11/1+121Y		KLH4567	1104	KSA733-0	2023	KTA1015-O	2023	LA-74	075
K43J	2035	K2001	2016		1104	KLH4577	1104	KSA733-O	2023	KTA1015-Y	2023	LA300	1104
K43K	2035	K2070	2016	KC0.8CP12/1	1104	KLH4746	2023	KSA733-Y	2023	KTA1015A	2023	LA600	1104
K43L	2035	K2071	2016	KC1.3C	1104	KLH4763	1122	KSA733Y	2023	KTA1015O	2023	LA800	1104
K43M	2035	K2072	2016	KC1.3C3X11/1	1104	KLH4792	2016	KSA735-O	2023	KTA1015Y	2023	LA6458D	038
[illegible]	2035	K2073	2016	KC1.3C22/1	1104	KM917E	2009	KSA1015Y	2023	KTC200-Y	1617	LA6458DF	038
[illegible]	2035	K2109	2016	KC1.3G	1104	KM917F	2009	KSC815	2009	KTC200Y	1617	LAA300	1104
K43S	2035	K2110	2016	KC1.3G12/1X2	1104	KM917G	2009	KSC815-0	2009	KTC380-O	2009	LAA600	1104
K43X	2035	K2111	2016	KC1.3G22/1A	1104	KM918E	2016	KSC815-O	2009	KTC380TM-O	2009	LAA800	1104
K43Y	2035	K2112	2016	KC2AP22/1B	1171	KM918F	2016	KSC815-OY	2009	KTC382	2058	LB3000	1801
K44	2035	K2113	2016	KC2AP221B	1171	KN2222	2009	KSC815-Y	2009	KTC388A	2009	LB3006	1802
K44C	2035	K2114	2016	KC2BP22/1B	1104	KNL8251LA	1617	KSC815Y	2009	KTC388A-TM	2009	LB3150	1808
K44D	2035	K2115	2016	KC2D22/1	1171	KOS25201-1	1123	KSC838-0	2009	KTC388ATM	2009	LBA-01Z1	1171
K47(2S)	2062	K2116	2016	KC2D221	1104	KO525201-2	1123	KSC838-O	2009	KTC388ATMFA	2009	LBA-02Z1	1171
K49(2S)	2035	K2117	2016	KC2DP	1104	KOS25671-20	2016	KSC945	2016	KTC1173	2020	LBA-04	1173
[illegible]	2035	K2118	2016	KC2DP11/1	1104	KOS25671-21	2016	KSC945(Y)	2009	KTC1173-O	2020	LBA-04Z1	1173
[illegible]	2035	K2119	2016	KC2DP12/1	1104	KOS25671-23	2016	KSC945-O	2016	KTC1815	2009	LC0.09M1115	1104
K49H(2S)	2035	K2120	2016	KC2DP12/1N	1104	KPB04	1173	KSC945-OY	2009	KTC1815(Y)	2009	LC4001B	2401
K49H1	2035	K2121	2016	KC2DP12/2	1104	KPG6682	1617	KSC945-Y	2009	KTC1815-BL	2009	LC4001BP	2401
K49M[illegible]	2035	K2122	2016	KC2DP22/1	1104	KR-162	1122	KSC945G	2009	KTC1815-D	2009	LC4011	2411
K49I(2S)	2035	K2123	2016	KC2DP22/1B	1171	KR8417	2009	KSC945Y	2009	KTC1815-GR	2009	LC4011B	2411
K49M	2035	K2124	2016	KC2DP121N	1104	KR-Q0005	1123	KSC1008	2009	KTC1815-GRFA-1	2009	LC4013B	2413
K52	1123	K2125	2016	KC2DP122	1104	KR-Q1013	1617	KSC1008(Y)	2009	KTC1815-O	2009	LC.09M	1104
K54	2035	K2126	2016	KC2DP221	1104	KS-05	1104	KSC1008-0	2030	KTC1815-O(TA)	2009	LC.09M11/15	1104
K54B	2035	K2127	2016	KC2DP221B	1104	KS05	1104	KSC1008-O	2009	KTC1815-Y	2009	LD34R	1122
K54C	2035	K2501	2016	KC2DP221C	1171	KS047A	565	KSC1008-Y	2009	KTC1815-Y(TA)	2009	LDA400	2009
K55	2035	K2502	2016	KC2G	1122	KS047B	565	KSC1008Y	2009	KTC-1815BL	2009	LDA400MP	2009
K55C	2035	K2503	2016	KC2G11/1	1104	KS051A	565	KSC1187	2009	KTC1815BL	2009	LDA401	2009
K55CD	2035	K2509	2016	KC2G11/1+12/1	1104	KS062A	561	KSC1187(R)	2009	KTC1815D	2009	LDA401MP	2009
K55D	2035	K2601C	2016	KC2G11/1&12/1	1104	KS34A	565	KSC1187-0	2058	KTC1815GR	2009	LDA402	2009
K55DE	2035	K2602C	2016	KC2G12/1	1104	KS34AF	565	KSC1187-O	2058	KTC-1815Y	2009	LDA404	2030
K55R	2035	K2603C	2016	KC13C221	1104	KS34B	565	KSC1187-R	2058	KTC1815Y	2009	LDA405	2030
K60	1123	K2604	2016	KC388A	2009	KS34BF	565	KSC1187C	2058	KTC1923-O	2058	LDA406	2030
K61	2035	K2604C	2016	KC1322/1	1104	KS35A	565	KSC1187O	2058	KTC1959-O	2009	LDA408	2030
K61GR	2035	K2615	2016	KC1815-GR	2009	KS35AF	565	KSC1187R	2058	KTC1959-Y	2009	LDA410	2016
K61Y	2035	K2616	2016	KC1815-Y	2009	KS37A	561	KSC1189R	2009	KTC1959Y	2009	LDA454	2023
K68	2035	K2857C	2016	KC1959-O	2009	KS37AF	561	KSC1674	2016	KTC2120(Y)	2009	LDA455	2023
K68-L	2035	K2857P	2016	KCDP12-1	1114	KS41A	562	KSC1674(R)	2016	KTC2120-O	2009	LDS200	2030
K68-M	2035	K3683C	2016	KCO6E11/8	1144	KS41AF	562	KSC1674-0	2058	KTC2120-Y	2009	LDS201	2030
K68A	2035	K3683P	2016	KCO8C11/8	1144	KS44A	563	KSC1674-O	2016	KTC2120Y	2009	LDS206	2009
K68AL	2035	K3880C	2016	KCO8C21/5	1144	KS44AF	563	KSC1674O	2058	KTC9013A	2009	LDS207	2016
K68A-M	2035	K3880P	2016	KCO8C22/19	1144	KS44B	563	KSC1674R	2016	KTC9014(C)	2009	LDS210	2009
K68AM	2035	K4002	2016	KCO-8CP11/1-12/1	1104	KS44BF	563	KSC1675	2009	KTC9014A	2009	LDS257	2023
K68L	2035	K4586	1000	KCO911/8	1144	KS46	564	KSC1675-0	2009	KTC9014A(C)	2009	LDZ70/6A2	561
K68M	2035	K4634	2035	KCO.8CP11	1104	KS46AF	564	KSC1675-O	2009	KTC9014A(D)	2009	LDZ70/9A1	562
K68Q	2035	K5001	2016	KCO.8CP11/1+12/1		KS46BF	564	KSC1675-Y	2009	KTC9014AC	2009	LF353	1715
K83	2035	[illegible]	2016		1104	KS120A	563	KSC1675R	2009	KTC9015A	2023	LF353N	1715
K104	2035	[illegible]	2016	KD27	1123	KS120B	563	KSC1675Y	2009	KTD880(GR)	2020	LFRC-27-15	1104
K104H	2035	[illegible]	2009	KD103A	1122	KS150A	564	KSC2120Y	2009	KTD880(Y)	2020	LID929	2016
K106	2035	[illegible]	2023	KD103B	1122	KS150B	564	KSD227-O	2009	KTD880-O	2020	LID930	2016
K107	2035	[illegible]5-22C	1101	KD300A	1122	KS512A	563	KSD807M	2055	KTD880-Y	2020	LJ-152	2023
K107-1	2035	K1038345-22E	1101	KD2102	1617	KS515A	564	KSD1051	2041	KTD880Y	2020	LJ152	2023

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
LJ152(0)	2023	LM741CJ	007	LPM4.7-20	565	LZZ1-9.1	562	M3D5	1114	M21CQ	1067	M100B	1104
LJ152G	2023	LM741CN	007	LPM4.7A	565	LZZ1-12	563	M3D9	1114	M21C-R	1067	M100D	1102
LL-2	1104	LM741EN	007	LPM5.1	565	LZZ1-15	564	M3E1	1114	M21CR	1067	M100G	1103
LL2	1104	LM741N	007	LPM5.1-20	565	LZZ1-115G	563	M3E5	1114	M21CY	1067	M100J	1104
LM555CN	1723	LM1090E	2009	LPM5.1A	565	M-0027	1104	M3E9	1114	M22	1104	M100K	1114
LM207N	007	LM1090F	2009	LPM6.2	561	M0027	1104	M3F1	1114	M23C	1067	M100M	1114
LM224AD	1711	LM1090G	2009	LPM6.2-20	561	M012	2016	M3F5	1114	M23CA	1067	M102	1114
LM224AF	1711	LM1110A	2016	LPM6.2A	561	M024	2016	M3F9	1114	M24	2009	M124J779-1	1104
LM224AJ	1711	LM1110B	2016	LPM9.1	562	M0Z	1104	M3G	1000	M24A	2009	M128J422	1104 N5
LM224AN	1711	LM1117	2016	LPM9.1-20	562	M1-152	1114	M3G1	1114	M24B	2009	M128J422-1	1101
LM224D	1711	LM1117C	2016	LPM9.1A	562	M1-301	1122	M3G5	1114	M25	2009	M128J753	1101
LM224J	1711	LM1117D	2009	LPM11	563	M1A1	1114	M3G9	1114	M25A	2009	M128J753-1	1101
LM224N	1711	LM1120B	2016	LPM12	563	M1A5	1114	M3H1	1114	M25A2	2009	M132	1104
LM239	1712	LM1120C	2016	LPM12-20	563	M1A9	1114	M3H5	1114	M25B	2009	M140-1	2016
LM239A	1712	LM1123H	2016	LPM12A	563	M1B1	1114	M3K1	1114	M25B2	2009	M140-3	2009
LM239AJ	1712	LM-1129	2009	LPM15	564	M1B5	1114	M3K5	1114	M26	1122	M150	1104
LM239AN	1712	LM-1130	2009	LPM15-20	564	M1B9	1114	M3K9	1114	M34A	1123	M150-1	1122
LM239J	1712	LM-1132	2009	LPM15A	564	M1C1	1114	M3M1	1114	M42	1104	M-152R	1114
LM239N	1712	LM-1133	2009	LPZT12	563	M1C5	1114	M3M5	1114	M51	1123	M172A	1104
LM317KC	1778	LM1133	2009	LPZT15	564	M1C9	1114	M3M9	1114	M54	2009	M-204B	1104
LM317T	1778	LM1138	2058	LR5GZ61	1114	M1D1	1114	M4A1	1114	M54A	2009	M204B	1104
LM324	1711	LM1138E/F	2058	LR47CH	565	M1D5	1114	M4A5	1114	M54B	2009	M366-1	2055
LM324A	1711	LM1138G/F	2058	LR51CH	565	M1D9	1114	M4A9	1114	M54BLK	2009	M484	2009
LM324AD	1711	LM1138G/H	2016	LR51D	565	M1E1	1114	M4B1	1114	M54BLU	2009	M500	1104
LM324AF	1711	LM1138H/I	2058	LR51E	565	M1E5	1114	M4B5	1114	M54BRN	2009	M500A	1104
LM324AJ	1711	LM-1147	2009	LR56CH	565	M1E9	1114	M4B9	1114	M54D	2009	M500B	1104
LM324AN	1711	LM-1148	2009	LR62CH	561	M1F1	1114	M4B31	1104	M54E	2009	M500C	1104
LM324D	1711	LM-1149	2023	LR62D	561	M1F5	1114	M4B31-13	1104	M54GRN	2009	M530	2030
LM324J	1711	LM-1150	2023	LR62E	561	M1F9	1114	M4B41	1114 N6	M54ORN	2009	M546	2016
LM324N	1711	LM-1151	2023	LR91CH	562	M1G1	1114	M4B41-13	1114	M54RED	2009	M604	1171
LM339	1712	LM-1153	2023	LR91D	562	M1G5	1114	M4C1	1114	M54WHT	2009	M604HT	1104
LM339A	1712	LM-1155	2009	LR91E	562	M1G9	1114	M4C5	1114	M54YEL	2009	M612	2016
LM339AJ	1712	LM-1158	1104	LR120CH	563	M1H	1104	M4C9	1114	M60	1123	M613	2016
LM339AN	1712	LM-1159	1122	LR120D	565	M1H1	1114	M4D1	1114	M62	1104	M614	2016
LM339D	1712	LM1159	1122	LR120E	563	M1H5	1114	M4D5	1114	M65A	2023	M644	2023
LM339DP	1712	LM-1160	1104	LR150CH	564	M1H9	1114	M4D9	1114	M65B	2023	M670	1104
LM339J	1712	LM1160	1104	LR150D	564	M1K1	1114	M4E1	1114	M65C	2023	M670A	1104
LM339N	1712	LM1403	2009	LR150E	564	M1K5	1114	M4E9	1114	M65D	2023	M670B	1104
LM340-5KC	1770	LM1404	2023	LRQB49	2009	M1K9	1114	M4F1	1114	M65E	2023	M670C	1104
LM340-5U	1770	LM1415-6	1617	LRR-50	1104	M1M1	1114	M4F5	1114	M65F	2023	M671	2009
LM340-12KC	1771	LM1415-7	1617	LRR50	1104	M1M5	1114	M4F9	1114	M67	1104	M680	1104
LM340-12U	1771	LM1458	038	LRR-100	1104	M1M9	1114	M4G1	1114	M67A	1104	M680A	1104
LM340-15U	1772	LM1458M	038	LRR100	1104	M15-12795B	2041	M4G5	1114	M67B	1104	M680B	1104
LM340AT5.0	1770	LM1458N	038	LRR-200	1104	M1X	2030	M4G9	1114	M67C	1104	M680C	1104
LM340T	1770	LM1501H	2030	LRR200	1104	M1Z	1102	M4H1	1114	M68	1104	M690	1104
LM340T-5	1770	LM1540	2009	LRR-300	1104	M2A1	1114	M4H5	1114	M68A	1104	M690A	1104
LM340T-5.0	1770	LM1540C	2016	LRR300	1104	M2A5	1114	M4H9	1114	M68B	1104	M690B	1104
LM340T5.0	1770	LM1566F	2009	LRR-400	1104	M2A9	1114	M4HZ	1104	M68C	1104	M690C	1104
LM340T-5.0R	1770	LM1614D	2009	LRR400	1104	M2B	1114	M4K1	1114	M69	1104	M700	1104
LM340T-12	1771	LM1614M	2009	LRR-500	1104	M2B1	1114	M4K5	1114	M69A	1104	M700A	1104
LM340T12	1771	LM1795	2023	LRR500	1104	M2B5	1114	M4K9	1114	M69B	1104	M700B	1104
LM340T-12R	1771	LM1818	2009	LS-0095-AR-213	2016	M2B9	1114	M4M1	1114	M69C	1104	M700C	1104
LM340T-15	1772	LM-1862	1104	LS3705	2009	M2C1	1114	M4M5	1114	M70	1104	M701B	1104
LM340T15	1772	LM1862	1104	LS5484	2035	M2C5	1114	M4M9	1114	M70A	1104	M702	1114
LM340T-15R	1772	LM2152	2009	LS5485	2035	M2C9	1114	M4Z4.7	565	M70B	1104	M702B	1114
LM340U5	1770	LM-2589	2023	LS7210	1307	M2D1	1114	M4Z4.7-20	565	M70C	1104	M702C	1104
LM340U12	1771	LM2682	2009	LST5753	041	M2D5	1114	M4Z4.7A	565	M71	1104	M710	1104
LM340U15	1772	LM2901J	1712	LT1016(E)	2009	M2D9	1114	M4Z5.1	565	M71A	1104	M710A	1104
LM341-5	1770	LM2901N	1712	LT1016D	2016	M2E1	1114	M4Z5.1-20	565	M71B	1104	M710B	1104
LM341-12	1771	LM2902	1711	LT1016E	2016	M2E5	1114	M4Z5.1A	565	M71C	1104	M710C	1104
LM341-15	1772	LM2902J	1711	LT1016H	2058	M2E9	1114	M4Z6.2	561	M72	1114	M720	1114
LM341P-5.0	1770	LM2902N	1711	LT1016I	2016	M2F1	1114	M4Z6.2-20	561	M72A	1114	M720A	1114
LM341P5.0	1770	LM3302	1712	LT1016I,H	2009	M2F5	1114	M4Z6.2A	561	M72B	1114	M720B	1114
LM341P-12	1771	LM3302J	1712	LT1016T,H	2009	M2F9	1114	M4Z9.1	562	M72C	1114	M720C	1114
LM341P12	1771	LM3302N	1712	LTE1016	2058	M2G1	1114	M4Z9.1-20	562	M72D	1114	M730	1114
LM341P-15	1772	LM3862M	1731	LTE1016(G.E.)	2016	M2G5	1114	M4Z9.1A	562	M73	1114	M730A	1114
LM341P15	1772	LM3909	1705	LTH1016	2058	M2G9	1114	M4Z12	563	M73A	1114	M730B	1114
LM342P12	1771	LM7812	1771	LTH1016(G.E.)	2016	M2GH1	1114	M4Z12-20	563	M73B	1114	M730C	1114
LM342P15	1772	LM8050I/J	2009	LVA47A	565	M2H5	1114	M4Z12A	563	M73C	1114	M773	2009
LM383	703	LM9016F	2016	LVA51A	565	M2H9	1114	M4Z15	564	M82	1114	M773RED	2009
LM383AT	703	LM9018G/F	2009	LVA62A	561	M2K1	1114	M4Z15-20	564	M91	2016	M774	2009
LM383T	703	LMP15	564	LVA91A	562	M2K5	1114	M4Z15A	564	M91A	2009	M774ORN	2009
LM386	1731	LMP15-20	564	LVA150	565	M2K9	1114	M4Z30	562	M91A01	1104	M775	2009
LM386A	1731	LMP15A	564	LVA162	561	M2M1	1114	M6HZ	1104	M91A02	1104	M775BRN	2009
LM386LM	1731	LN21RCPHL	041	LVA347A	565	M2M5	1114	M6.2Z	561	M91A03	1104	M776	2009
LM386N	1731	LNA347	565	LVA351A	565	M2M9	1114	M7	2023	M91A06	1114	M776GRN	2009
LM386N-1	1731	LNA347A	565	LVA362A	561	M2.5A	1114	M8HZ	1114	M91B	2009	M779	1617
LM386N-3	1731	LNA362	561	LVA391A	562	M3A1	1114	M9Z	562	M91BGRN	2009	M779BLU	2009
LM555	1723	LNA362A	561	LVA450	565	M3A5	1114	M12	1104	M91C	2009	M780	1617
LM555C	1723	LNA391	562	LVA1047A	565	M3A9	1114	M12Z	563	M91CM624	2009	M780WHT	2009
LM555CJ	1723	LNA391A	562	LVA1051A	565	M3B1	1114	M14	1104	M91D	2009	M783	2009
LM555CN	1723	LP1H	1104	LVA1062A	561	M3B5	1114	M15Z	564	M91E	2009	M783RED	2009
LM555CN#1	1723	LP2H	1104	LVA1091A	562	M3B9	1114	M21C	1067	M91F	2009	M784	2009
LM555CN#2	1723	LP3H	1104	LZ4.7	565	M3C1	1114	M21C/Q	1067	M91FM624	2009	M784ORN	2009
LM556CN	1728	LP4H	1104	LZZ1-4.7	565	M3C5	1114	M21C/R	1067	M95	1123	M785	2009
LM723CN	1740	LP100	1122	LZZ1-5.1	565	M3C9	1114	M21C5	1067	M100	2035	M785YEL	2009
LM741	007	LPM4.7	565	LZZ1-6.2	561	M3D1	1114	M21CA	1020	M100A	1101	M786	1617

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M827	2009
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M924	2009
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M3519	2009
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M4464	2009
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M4594	2009
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M4630	2009
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M4705	2009
M4706	2009
M4709	2016
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M4714	2009
M4715	2041
M-4721	2009
M4732	2009
M4733	2016
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M4739	2009
M4745	2023
M4746	2016
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M4757	2016
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M4768	2009
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M4821	2009
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M9248	2009
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M9266	2016
M9278	2041
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M9321	2041
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M9348	2027
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M106379	1104
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MC1488N	2520	MC7805	1770	MCCZE9.1D5	562	MD54	1123	MDCZD9.1D10	562	ME4002	1617	MHT2418	2030
MC1488P	2520	MC7805ACT	1770	MCCZE9.1D10	562	MD56	1123	MDCZD12D	563	ME4003	1617	MHT4401	2030
MC1488PD	2520	MC7805BT	1770	MCCZE12D	563	MD60	1123	MDCZD12D5	563	ME4003C	1617	MHT4411	2030
MC1489	2521	MC7805C	1770	MCCZE12D5	563	MD-60A	1123	MDCZD12D10	563	ME4101	1617	MHT4412	2030
MC1489/SN75189N	2521	MC7805CP	1770	MCCZE12D10	563	MD60A	1123	MDCZD15D	564	ME4102	1617	MHT4413	2030
MC1489A	2521	MC7805CT	1770	MCCZE15D	564	MD134	1122	MDCZD15D5	564	ME4103	1617	MHT4451	2030
MC1489AP	2521	MC7812	1771	MCCZE15D5	564	MD135	1122	MDCZD15D10	564	ME4104	1617	MHT4483	2030
MC1489F	2521	MC7812ACT	1771	MCCZE15D10	564	MD136	1122	MDCZE9.1D	562	ME5001	2016	MHT4511	2030
MC1489L	2521	MC7812BT	1771	MCCZF4.7D	565	MD137	1104	MDCZE9.1D5	562	ME6001	1617	MHT4512	2030
MC1489N	2521	MC7812CT	1771	MCCZF4.7D5	565	MD138	1104	MDCZE9.1D10	562	ME6002	1617	MHT4513	2030
MC1489P	2521	MC7815	1772	MCCZF4.7D10	565	MD139	1104	MDCZE12D	563	ME6003	1617	MHT5906	2020
MC1520	1104	MC7815ACT	1772	MCCZF5.1D	565	MD234	1122	MDCZE12D5	563	ME6101	2023	MHT7401	2030
MC1521	1102	MC7815BT	1772	MCCZF5.1D5	565	MD235	1122	MDCZE12D10	563	ME8001	2030	MHT7411	2030
MC1522	1102	MC7815CP	1772	MCCZF5.1D10	565	MD236	1122	MDCZE15D	564	ME8002	2030	MHT7412	2030
MC1523	1103	MC7815CT	1772	MCCZF6.2D	561	MD237	1104	MDCZE15D5	564	ME8003	2030	MHT7414	2030
MC1524	1103	MC7815P	1772	MCCZF6.2D5	561	MD238	1104	MDCZE15D10	564	ME8101	2016	MHT7417	2030
MC1525	1104	MC14001	2401	MCCZF6.2D10	561	MD708	2009	MDCZF4.7D	565	ME8201	2016	MHT7601	2041
MC1526	1104	MC14001B	2401	MCCZF9.1D	562	MD708A	2009	MDCZF4.7D5	565	ME9001	2009	MHT7602	2041
MC1527	1114	MC14001BCL	2401	MCCZF9.1D5	562	MD708AF	2009	MDCZF4.7D10	565	ME9002	2016	MHT7603	2041
MC1528	1114	MC14001BCP	2401	MCCZF9.1D10	562	MD708B	2009	MDCZF5.1D	565	ME9003	2016	MHT7607	2041
MC1529	1114	MC14001CP	2401	MCCZF12D	563	MD708BF	2009	MDCZF5.1D5	565	ME9021	2016	MHT7608	2041
MC1558G	038	MC14011	2411	MCCZF12D5	563	MD708F	2009	MDCZF5.1D10	565	ME9022	2016	MHT7609	2041
MC1723CL	1740	MC14011B	2411	MCCZF12D10	563	MD753	561	MDCZF6.2D	561	MEM4001	2401	MHT9001	2030
MC1723CP	1740	MC14011BAL	2411	MCCZG4.7D	565	MD753A	561	MDCZF6.2D5	561	MEM4011	2411	MHT9002	2030
MC1741CP	007	MC14011BCL	2411	MCCZG4.7D5	565	MD757	562	MDCZF6.2D10	561	MEM4013	2413	MHT9004	2030
MC1741CP1	007	MC14011BCP	2411	MCCZG4.7D10	565	MD757A	562	MDCZF9.1D	562	MEM4049	2449	MHT9005	2030
MC1741NCP1	007	MC 14011CP	2411	MCCZG5.1D	565	MD759	563	MDCZF9.1D5	562	MEZ1-4.7	565	MI-15	1104 N2
MC1741P1	007	MC14011CP	2411	MCCZG5.1D5	565	MD759A	563	MDCZF9.1D10	562	MEZ1-5.1	565	MI-15MR	1104 N1
MC2321	1122	MC14013	2413	MCCZG5.1D10	565	MD982	2023	MDCZF12D	563	MEZ1-6.2	561	MI-15MS	1104 N2
MC2325	1122	MC14013A1	2413	MCCZG6.2D	561	MD982F	2023	MDCZF12D5	563	MEZ1-9.1	562	MI-15R	1104 N1
MC2326	1122	MC14013B	2413	MCCZG6.2D5	561	MDA100	1171	MDCZF12D10	563	MEZ1-12G	563	MI15R	1104
MC2335	1122	MC14013BAL	2413	MCCZG6.2D10	561	MDA100A	1171	MDCZG4.7D	565	MEZ1-15	564	MI15RC	1104
MC2336	1122	MC14013BCL	2413	MCCZG9.1D	562	MDA101	1171	MDCZG4.7D5	565	MEZ1-115	563	MI-15S	1104 N2
MC2355	1122	MC14013BCP	2413	MCCZG9.1D5	562	MDA101A	1171	MDCZG4.7D10	565	MEZ12T5	563	MI15S	1104
MC2356	1122	MC14013CP	2413	MCCZG9.1D10	562	MDA104	1173	MDCZG5.1D	565	MEZ12T10	563	MI15SC	1104
MC2525	1122	MC14017	2417	MCCZG12D	563	MDA104A	1173	MDCZG5.1D5	565	MEZ15T5	564	MI-101R	1104 N1
MC2526	1122	MC14017BAL	2417	MCCZG12D5	563	MDA200	1171	MDCZG5.1D10	565	MEZ-15T5A	564	MI-102	1104 N2
MC2535	1122	MC14017BCL	2417	MCCZG12D10	563	MDA201	1171	MDCZG6.2D	561	MEZ15T10	564	MI-102R	1104 N1
MC2536	1122	MC14017BCP	2417	MCR72-1	1067	MDA204	1173	MDCZG6.2D5	561	MEZ15T10C	564	MI-104	1114 N2
MC2555	1122	MC14017CP	2417	MCR72-2	1067	MDA920-1	1171	MDCZG6.2D10	561	MF521	2035	MI-104R	1114 N1
MC2556	1122	MC14049	2449	MCR72-3	1067	MDA920-2	1104	MDCZG9.1D	562	MF1161	2016	MI-106	1114 N2
MC2625	1122	MC14049B	2449	MCR72-4	1067	MDA920-5	1173	MDCZG9.1D5	562	MF1162	2016	MI-106R	1114 N1
MC2626	1122	MC14049CP	2449	MCR72-5	1020	MDA920-6	1173	MDCZG9.1D10	562	MF1163	2016	MI-151	1114 N2
MC2635	1122	MC14049UB	2449	MCR100-3	1067	MDA920A2	1161	MDCZG12D	563	MF1164	2016	MI-151R	1114 N1
MC2636	1122	MC14049UBAL	2449	MCR100-4	1067	MDA920A6	1173	MDCZG12D5	563	MF3304	2023	MI151R	1101
MC3302	1712	MC14049UBCL	2449	MCR100-5	1020	MDA942-2	1171	MDCZG12D10	563	MFE2000	2035	MI-152	1114 N2
MC3302P	1712	MC14049UBCP	2449	MCR100-6	1020	MDA942-4	1173	MDP173	1122	MFE2001	2035	MI-152A	1114 N2
MC3456P	1728	MC53200	1801	MCR101	1067	MDA942-5	1173	MDS26	2017	MFE2093	2035	MI 152A	1114
MC4558ACP1	038	MCC555A	1723	MCR102	1067	MDA942A-1	1171	MDS27	2017	MFE2094	2035	MI-152DR	1114 N1
MC4558CP	038	MCC555B	1723	MCR103	1067	MDA942A1	1171	ME0404	2023	MFE2095	2035	MI-152DS	1114 N2
MC4558CP1	038	MCCZA9.1D	562	MCR104	1067	MDA942A-2	1171	ME0404-1	2023	MFE4007	2035	MI-152R	1114 N1
MC4558CU	038	MCCZA9.1D5	562	MCR106-1	1067	MDA942A-4	1173	ME0404-2	2023	MFE4008	2035	MI 152R	1104 N1
MC5321	1122	MCCZA9.1D10	562	MCR106-2	1067	MDA942A-5	1173	ME0404A	2023	MFE4009	2035	MI-152RA	1114 N1
MC6008	561	MCCZA12D	563	MCR106-3	1067	MDA942A5	1173	ME0461	2023	MFE4010	2035	MI 152RA	1114
MC6008A	561	MCCZA12D5	563	MCR106-4	1067	MDA2500	1185	ME0462	2023	MFE4011	2035	MI-154	1114 N2
MC6013	562	MCCZA12D10	563	MCR106-5	1020	MDCZA9.1D	562	ME-1	1617	MFE4012	2035	MI-154R	1114 N1
MC6013A	562	MCCZA15D	564	MCR106-6	1020	MDCZA9.1D5	562	ME1D821	561	MFJ1033S	2035	MI-156	1114 N2
MC6016	563	MCCZA15D5	564	MCR107-1	1067	MDCZA9.1D10	562	ME1D821A	561	MGD72	1122	MI-156R	1114 N1
MC6016A	563	MCCZA15D10	564	MCR107-2	1067	MDCZA12D	563	ME1D823	561	MGLA47	565	MI-201	1122

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
MI301	1122	MK10-2	2035	MM3736	2030	MPC3500	1122	MPS3391	2009	MPS6513	2009	MPS9246A.B	2009
MI402	1104	MK-10-E	2035	MM3737	2030	MPC14305	1770	MPS3391A	2009	MPS6514	2009	MPS9410	2030
MI1546	2016	MK10-E	2035	MM3903	1617	MPD200	1122	MPS3392	2009	MPS6515	2009	MPS9410A	2030
MIC7400J	1801	MK102	2035	MM3904	1617	MPD201	1122	MPS3393	2009	MPS6516	2023	MPS9410AJ	2030
MIC7400N	1801	MK585	2035	MM3905	2023	MPD202	1122	MPS3394	2009	MPS6517	2023	MPS9410AK	2030
MIC7401J	1801	ML723CM	1740	MM3906	2023	MPD203	1122	MPS3395	2009	MPS6518	2023	MPS9410H	2030
MIC7401N	1801	ML723CP	1740	MM4011	2411	MPD300	1122	MPS3396	2009	MPS6519	2023	MPS9417A-T	2009
MIC7404J	1802	ML741CS	007	MM4013	2413	MPD301	1122	MPS3397	2016	MPS6520	2009	MPS9418	2009
MIC7404N	1802	ML1458S	038	MM4017	2417	MPD302	1122	MPS3398	2009	MPS6521	2009	MPS9418T	2009
MIC7490J	1808	ML7815P	1772	MM4048	2023	MPD400	1122	MPS3536	2016	MPS6522	2023	MPS9423	2009
MIC7490N	1808	MLM139	1712	MM4049	2449	MPD401	1122	MPS-3563	2009	MPS6523	2023	MPS9423G	2016
MJ105	2055	MLM139AL	1712	MM4052	2023	MPD402	1122	MPS3563	2016	MPS6528	2016	MPS9423H	2016
MJ139A	2009	MLM139L	1712	MM4429	2017	MPD4011BC	2411	MPS3565	2016	MPS6529	2016	MPS9423I	2016
MJ480	2041	MLM224L	1711	MM4430	2017	MPF101	2035	MPS3566	2009	MPS6530	2009	MPS9426	2058
MJ481	2041	MLM224P	1711	MM5189	2030	MPF102	2062	MPS3638	2023	MPS6531	2009	MPS9426A.B	2009
MJ490	2043	MLM239AL	1712	MM5262	2030	MPF103	2035	MPS-3638A	2023	MPS6532	2009	MPS9426B	2058
MJ491	2043	MLM239L	1712	MM5611AN	2411	MPF104	2035	MPS3638A	2023	MPS6533	2023	MPS9426B,C	2058
MJ-2251	2030	MLM324	1711	MM8006	2016	MPF105	2035	MPS3639	2023	MPS6533M	2023	MPS9426BC	2058
MJ2800	2041	MLM324L	1711	MM8007	2016	MPF-106	2035	MPS3640	2023	MPS6534	2023	MPS9426C	2058
MJ2801	2041	MLM324P	1711	MMBZ5234	561	MPF106	2062	MPS3642	2009	MPS6534M	2023	MPS9427	2058
MJ2802	2041	MLM324P1	1711	MMBZ5239	562	MPF107	2035	MPS3643	1617	MPS6535	2023	MPS9427B	2058
MJ2901	2043	MLM339AL	1712	MMBZ5242	563	MPF108	2035	MPS3644	2023	MPS6535M	2023	MPS9427B.C	2009
MJ2955	2043	MLM339L	1712	MMCM918	2016	MPF111	2062	MPS3645	2023	MPS6539	2058	MPS9427C	2058
MJ3480	2055	MLNA347	565	MMCM930	2016	MPF112	2035	MPS3646	2009	MPS6540	2058	MPS9433	2009
MJ6302	2041	MLNA347A	565	MMCM2222	1617	MPF256	2035	MPS3693	2009	MPS6541	2058	MPS9433I	2009
MJ8400	2055	MLNA351	565	MMT70	2016	MPF820	2035	MPS3694	2009	MPS6542	2058	MPS9433J	2016
MJ12002	2055	MLNA351A	565	MMT72	2009	MPL1000	2023	MPS-3702	2023	MPS6543	2058	MPS9433K	2009
MJ12003	2055	MLNA362	561	MMT73	2009	MPM5006	2009	MPS3702	2023	MPS6544	2009	MPS9433S	2009
MJ12004	2055	MLNA362A	561	MMT918	2058	MPN3201	1122	MPS3703	2023	MPS6545	2009	MPS9433T	2009
MJ15001	2041	MLNA391	562	MMT2222	2009	MPN-3401	1122	MPS3704	2009	MPS6546	2058	MPS9434	2009
MJ15002	2043	MLNA391A	562	MMT3014	2009	MPN3412	1122	MPS-3705	2009	MPS6547	2016	MPS9434J	2009
MJE2[illegible]	2020	MLV750A	565	MMT3546	2023	MPS393	2009	MPS3705	2009	MPS6548	2058	MPS9434K	2009
MJE2[illegible]A	2020	MLV751A	565	MMT3799	2023	MPS404	2023	MPS3706	2009	MPS6552	2009	MPS9444	1122
MJE2[illegible]	2020	MLV753A	561	MMT3903	2009	MPS404A	2023	MPS3707	2009	MPS6553	2023	MPS9467A-T	2023
MJE29C	2020	MLV757A	562	MMT3904	2009	MPS654	2016	MPS3708	2009	MPS6554	2009	MPS9468A	2023
MJE31	2020	MLV759A	563	MMT8015	2016	MPS-706	2009	MPS3709	2009	MPS6555	2009	MPS9483T	2023
MJE31A	2020	MM0	1104	MMZ4.7	565	MPS706	2009	MPS3710	2009	MPS6556	2009	MPS9484	2023
MJE31B	2020	MM2	1104	MMZ4.7-20	565	MPS706A	2009	MPS3711	2009	MPS6560	2009	MPS9600	2009
MJE31C	2020	MM3	1104	MMZ4.7A	565	MPS708	2016	MPS3721	2009	MPS6561	2009	MPS9600(G)	2009
MJE33	2020	MM4	1104	MMZ5.1	565	MPS805	2016	MPS3826	2009	MPS6562	2023	MPS9600-5	2009
MJE33A	2020	MM5	1104	MMZ5.1-20	565	MPS834	2009	MPS3827	2009	MPS6563	2023	MPS9600F	2009
MJE33B	2020	MM6	1104	MMZ5.1A	565	MPS835	2009	MPS3900	2009	MPS6564	2009	MPS9600G	2009
MJE33C	2020	MM7	1114	MMZ6.2	561	MPS918	2016	MPS3900A	2009	MPS6565	2009	MPS9600G/H	2016
MJE34	2027	MM8	1114	MMZ6.2-20	561	MPS929	2023	MPS3901	2009	MPS6566	2009	MPS9601	2016
MJE41	2020	MM9	1114	MMZ6.2A	561	MPS929A	2023	MPS3903	2009	MPS6567	2009	MPS9602	1104
MJE41A	2020	MM10	1114	MMZ9.1	562	MPS930	2023	MPS3904	2016	MPS6568	2009	MPS9604	2058
MJE41B	2020	MM306	2030	MMZ9.1-20	562	MPS930A	2023	MPS3905	2023	MPS6568A	2058	MPS9604(E)	2009
MJE41C	2020	MM486	2030	MMZ9.1A	562	MPS960T	2009	MPS3906	2023	MPS6569	2058	MPS9604D	2009
MJE101	2027	MM487	2030	MMZ12	563	MPS1572	2023	MPS3992	2009	MPS6569A	2009	MPS9604E	2009
MJE102	2027	MM488	2030	MMZ12-20	563	MPS2221	2009	MPS4145	1617	MPS6570	2058	MPS9604F	2009
MJE103	2027	MM511	2030	MMZ12A	563	MPS2221A	2009	MPS4248	2023	MPS6570A	2009	MPS9604FG	2009
MJE201	2020	MM512	2030	MMZ15	564	MPS2222	2009	MPS4249	2023	MPS-6571	2009	MPS9604I	2009
MJE202	2020	MM513	2030	MMZ15-20	564	MPS2222A	2009	MPS4250	2023	MPS6571	2009	MPS9604R	2009
MJE205K	2020	MM709	2016	MMZ15A	564	MPS2369	2009	MPS4250A	2023	MPS6572	2016	MPS9606(H)	1122
MJE240	2020	MM741	007	MMZ15A-20	564	MPS2711	2009	MPS4274	2009	MPS6573	2009	MPS9606(I)	1122
MJE241	2020	MM869B	2009	MN34A	1123	MPS2712	2009	MPS4275	2009	MPS6574	2009	MPS9606I	1122
MJE242	2020	MM999	2023	MN51	1123	MPS2713	2009	MPS4354	2023	MPS6574-B	2030	MPS9611-5	2009
MJE520K	2020	MM1367/2SC684	2016	MN54	2009	MPS2714	2009	MPS4355	2023	MPS6574-BLUE	2030	MPS9616	2009
MJE521K	2020	MM1382	2016	MN60(DIODE)	1123	MPS2715	2009	MPS4356	2023	MPS6574-G	2030	MPS9616J	2009
MJE800T	2068	MM1387	2016	MN4001B	2401	MPS-2716	2009	MPS5086	2023	MPS6574-S	2030	MPS9618	2009
MJE801T	2068	MM1505	2009	MN4011B	2411	MPS2716	2009	MPS5127	2009	MPS6574-SIL	2030	MPS9618(J)	2009
MJE802T	2068	MM1613	2009	MN4013B	2413	MPS2823	2016	MPS5128	2016	MPS6574-Y	2030	MPS9618H	2009
MJE803T	2068	MM1614	2023	MOC3009	134	MPS2894	2016	MPS5129	2016	MPS6574-YEL	2030	MPS9618I	2009
MJE2021	2020	MM1619	2020	MOC3010	134	MPS2906	2009	MPS5131	2016	MPS6575	2009	MPS9618J	2009
MJE2380	2020	MM1711	2009	MOC3011	134	MPS2907	2023	MPS5132	2016	MPS6575GREEN	2009	MPS9623	2009
MJE2381	2020	MM1748	2009	MOZ	1104	MPS2907A	2023	MPS5133	2009	MPS6576	2009	MPS9623C	2009
MJE2382	2020	MM1755	1617	MP-01	1104	MPS2923	2009	MPS5134	2009	MPS6576-B	2009	MPS9623C(F)	2009
MJE2383	2020	MM1756	1617	MP01	1104	MPS2924	2009	MPS5135	2009	MPS6576-BLUE	2009	MPS9623E	2009
MJE2480	2020	MM1757	1617	MP-04	1173	MPS2925	2009	MPS5136	2009	MPS6576-G	2009	MPS9623E.G	2009
MJE2481	2020	MM1758	1617	MP2	1122	MPS2926	2009	MPS5137	2009	MPS6576-GREEN	2009	MPS9623F	2009
MJE2482	2020	MM1809	2030	MP100	1104	MPS2926-B	2030	MPS5138	2023	MPS6576-S	2009	MPS-9623G	2009
MJE2483	2020	MM1809A	2030	MP225	1104	MPS2926-BRN	2009	MPS5142	2023	MPS6576-SIL	2009	MPS9623G	2009
MJE2520	2020	MM1810A	2030	MP300	1104	MPS2926-G	2009	MPS5143	2023	MPS6576-Y	2009	MPS9623G/H	2009
MJE2521	2020	MM1943	2030	MP400	1104	MPS2926-GRN	2009	MPS-5172	2016	MPS6576-YEL	2009	MPS9623H	2009
MJE2522	2020	MM1945	2016	MP500(RECT.)	1104	MPS2926-O	2030	MPS5172	2009	MPS6576GREEN	2009	MPS9623H/I	2009
MJE2523	2020	MM2005-2	1617	MP549	1143	MPS2926-ORG	2009	MPS5668	2035	MPS6576SIL	1617	MPS9623I	2009
MJE2801T	2020	MM2266	2030	MP651	1104	MPS2926-R	2030	MPS5855	2023	MPS6579	2023	MPS9623I/J	2009
MJE2940	2041	MM2484	1617	MP1003-1	1104	MPS2926-RED	2009	MPS5857	2023	MPS6580	2023	MPS9623J	2009
MJE3054	2020	MM2613	2009	MP1003-2	1104	MPS2926-Y	2030	MPS6076	2023	MPS6590	2009	MPS9625	2058
MJE3055T	2020	MM2614	2023	MP1003-4	1104	MPS2926-YEL	2009	MPS6134	2023	MPS6591	2023	MPS9625D	2058
MJE9411T	2016	MM2711	2009	MP1014-2	1617	MPS2926BRN	2009	MPS6172	2023	MPS8001	2009	MPS9625E	2058
MJF1033G	2035	MM2712	2023	MP5113	1104	MPS2926GRN	2009	MPS6351	1617	MPS8097	2009	MPS9625F	2058
MJF3370	2027	MM3004	2017	MP-5115	1104	MPS2926ORN	2009	MPS6413	1617	MPS8098	2009	MPS9625G	2058
MJF10335	2035	MM3006	1617	MP6566	2009	MPS2926RED	2009	MPS6507	2016	MPS8099	2009	MPS9625H	2058
MK-10	2035	MM3726	2023	MP8111	2020	MPS2926YEL	2009	MPS6511	2016	MPS8598	2023	MPS9626	2009
MK10	2035	MM3734	2030	MP8112	2020	MPS3013	2023	MPS6511-S	2016	MPS8599	2023	MPS9626G	2009
MK-10-2	2035	MM3735	2030	MPC1458C	038	MPS3390	2009	MPS6512	2009	MPS9185	1617	MPS9626H	2009

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MPS9626I	2009	MPSA18	2016	MR120C-H	563	MS-2	1104	MT458A	1122	MTP7N06	2072	MZ-12B	563
MPS9630	2009	MPS-A20	1617	MR122B	1114	MS2H	1104	MT459	1102	MTZ5.1(B)	565	MZ12B	563
MPS9630H	2009	MPSA20	2009	MR-150-01	1104	MS3H	1104	MT459A	1102	MTZ5.1(C)	565	MZ12T5	563
MPS9630H.I	2009	MPSA20-BLU	2016	MR150C-H	564	MS-4	1103	MT461	1122	MTZ5.1B	565	MZ12T10	563
MPS-9630I	2009	MPSA20-GRN	2016	MR500	1141	MS4H	1104	MT461A	1122	MTZ6.2	561	MZ12T20	563
MPS9630I	2009	MPSA20-RED	2016	MR501	1143	MS5H	1104	MT462	1122	MTZ6.2(C)	561	MZ15A	564
MPS9630T	2009	MPSA20-WHT	2016	MR502	1143	MS11H	1104	MT462A	1104	MTZ6.2B	561	MZ15T5	564
MPS9631	2009	MPSA20-YEL	2016	MR504	1144	MS12H	1104	MT463	1102	MTZ6.2BT	561	MZ15T10	564
MP59631(I)	1617	MPS-A55	2023	MR852	1104	MS13H	1104	MT463A	1102	MTZ6.2BT-77	561	MZ15T20	564
MPS9631I	2009	MPSA55	2023	MR910	1114	MS14H	1104	MT464	1102	MTZ9.1	562	MZ70-4.7	565
MPS9631J	2009	MPS-A56	2023	MR990	1114	MS22B	1617	MT464A	1102	MTZ9.1(C)	562	MZ70-4.7A	565
MPS9631K	2009	MPSA56	2023	MR1030A	1114	MS35H	1104	MT482	1101	MTZ12	563	MZ70-4.7B	565
MPS9631S	2009	MPS-A70	2023	MR1030AR	1114	MS36H	1104	MT482A	1122	MTZ15	564	MZ70-5.1	565
MPS9631T	2009	MPSA70	2023	MR1030B	1114	MS37H	1103	MT482B	1122	MTZ608	561	MZ70-5.1A	565
MPS9632	2009	MPSA70-YEL	2023	MR1030BR	1114	MS38H	1104	MT483	1104	MTZ608A	561	MZ70-5.1B	565
MPS9632(I)	2009	MPSD05	2009	MR1031	1114	MS50	1104	MT483A	1104	MTZ613	562	MZ70-6.2	561
MPS9632(K)	2009	MPSD06	2009	MR1031A	1114	MS701T	2016	MT483B	1104	MTZ613A	562	MZ70-6.2A	561
MPS9632H	2009	MPSD55	2023	MR1031AR	1114	M52991	2030	MT484	1102	MTZ616	563	MZ70-6.2B	561
MPS9632I	2009	MPSD56	2023	MR1031B	1114	MS3694	2009	MT484A	1122	MTZ616A	563	MZ70-8.7	562
MPS9632J	2009	MPSEL239	2009	MR1031BR	1114	MS7501S	2016	MT484B	1122	MTZ618	564	MZ70-8.7A	562
MPS9632K	2009	MPSH02	2058	MR1032A	1114	MS7501T	2016	MT485	1102	MTZ618A	564	MZ70-8.7B	562
MPS9632T	2009	MPSH07	2016	MR1032AR	1114	MS7502	1617	MT485A	1102	MV4	1122	MZ70-9.1	562
MPS9633	2016	MPSH08	2016	MR1032B	1114	MS7502S	2016	MT485B	1102	MV-5	1104	MZ70-9.1A	562
MPS9633B	2009	MPSH09	2016	MR1032BR	1114	MS7502T	2016	MT486	1103	MV-13(BIAS)	1104	MZ70-9.1B	562
MPS9633C	2009	MPSH10	2058	MR1033A	1114	MS7503	1617	MT486A	1103	MV-13(DIO)	1122	MZ70-12	563
MPS9633D	2016	MPS-H11	2016	MR1033AR	1114	MS7505	2023	MT486B	1103	MV-13(HV-46)	1144	MZ70-12A	563
MPS9633G	2016	MPSH11	2058	MR1033B	1114	MS7506H	2030	MT696	1617	MV5074B	026	MZ70-12B	563
MPS9633X	2009	MPS-H17	2058	MR1033BR	1114	MS7506J	2030	MT697	1617	MV5491	025	MZ70-15	564
MPS9634	2009	MPSH17	2058	MR1034A	1114	MSA7505	2020	MT706	1617	MV5753	041	MZ70-15A	564
MPS9634B	2009	MPS-H19	2016	MR1034AR	1114	MSA8505	2020	MT706A	1617	MV57164	081	MZ70-15B	564
MPS9634C	2009	MPSH19	2058	MR1034B	1114	MSA8506	2017	MT706B	1617	MVA-05A	1104	MZ70MA	561
MPS9634D	2009	MPS-H20	2016	MR1034BR	1114	MSA8508	2017	MT707	1617	MVA-05A(DIO)	1104	MZ92-4.7	565
MPS9644	1122	MPSH20	2058	MR1035A	1114	MSD6150	1101	MT708	1617	MVA-05A(RECT)	1104	MZ92-4.7A	565
MPS9646	1122	MPS-H24	2016	MR1035AR	1114	MSG7506	2030	MT726	2023	MX-3108	2009	MZ92-4.7B	565
MPS9646G	1122	MPSH24	2016	MR1035B	1114	MSK5408	2030	MT743	2016	MX-3122	2058	MZ92-5.1	565
MPS9646H	1122	MPSH30	2058	MR1035BR	1114	MSM63	2023	MT744	2016	MX-3123	2058	MZ92-5.1A	565
MPS9646I	1122	MPSH31	2058	MR1036A	1114	MSM631	2023	MT753	2016	MX-3267	2009	MZ92-5.1B	565
MPS9646J	1122	MPS-H32	2009	MR1036AR	1114	MSM4001	2401	MT869	2023	MX-3634	2411	MZ92-6,0B	561
MPS9666	2023	MPSH32	2009	MR1036B	1114	MSM4011	2411	MT890	1104	MX3634	2411	MZ92-6.0B	561
MPS9680	2023	MPS-H34	2058	MR1036BR	1114	MSM4011RS	2411	MT1038	2016	MX-3733	2058	MZ92-6.2	561
MPS9680H	2023	MPSH34	2016	MR1038A	1114	MSM4013	2413	MT1038A	2016	MX3733	2058	MZ92-6.2A	561
MPS9680H/E	2023	MPS-H37	2058	MR1038AR	1114	MSM4013RS	2413	MT1039	2016	MX-3743	2009	MZ92-6.2B	561
MPS9680H/I	2023	MPSH37	2058	MR1038B	1114	MSM4017	2417	MT1040A	2016	MX-3937	2009	MZ92-8.7	562
MPS9680I	2023	MPSH54	2023	MR1038BR	1114	MSM4017AN	2417	MT1061	2016	MX-3944	2023	MZ92-8.7A	562
MPS9680I/J	2023	MPSH55	2023	MR1040A	1114	MSP999058-1	2030	MT1061A	2016	MX-3978	2009	MZ92-8.7B	562
MPS9680J	2023	MPSH81	2023	MR1040AR	1114	MSR-500	1104	MT1070	2017	MX-4160	2009	MZ92-9.1	562
MPS9680T	2023	MPSK20	2009	MR1040B	1114	MSR7502	2016	MT1131	2023	MX-4491	2009	MZ92-9.1A	562
MPS9681	2023	MPSK21	2009	MR1040BR	1114	MSR7503	1617	MT1131A	2023	MX-4492	2023	MZ-92-9.1B	562
MPS9681J	2023	MPSK22	2009	MR1337-1	1104	MSR-V5	1104	MT1132	2023	MX-4504	2009	MZ92-9.1B	562
MPS9681K	2023	MPSK70	2023	MR1337-2	1104	MSS-1000	1104	MT1132A	2023	MX-4539	2058	MZ92-12	563
MPS9681T	2023	MPSK71	2023	MR1337-3	1104	MSS1000	1122	MT1132B	2023	MX-4540	2058	MZ92-12A	563
MPS9682(I)	2023	MPSK72	2023	MR1337-4	1104	MSS7501	2016	MT1254	2023	MX-4541	2009	MZ92-12B	563
MPS9682I	2023	MPX-25	1104	MR1337-5	1104	MSS7502	2016	MT1255	2023	MX-4873	2009	MZ92-15	564
MPS9682J	2023	MPX25	1104	MR2064	1104	MST-10	2030	MT1256	2023	MX-4972	2009	MZ92-15A	564
MPS9682K	2023	MPX215	1104	MR2065	1104	MST7501	2016	MT1257	2023	MX-4973	2023	MZ92-15B	564
MPS9682T	2023	MPX9623	2009	MR2069	1114	MSZ9.1	562	MT1258	2023	MX-5368	2009	MZ205	565
MPS9696	2009	MPX9623H	2009	MR2070	1114	MT021	1104	MT1259	2023	MX-5369	2023	MZ206	561
MPS9696F	2009	MPX9623H/I	2009	MR2075	1114	MT021A	1104	MT1420	2023	MX-5370	2009	MZ-209	562
MPS9696G	2009	MPX9623I	2009	MR2261	1104	MT022	1104	MT1613	2030	MX-5371	2009	MZ209	562
MPS9696H	2009	MQ1	2009	MR2271	1104	MT022A	1104	MT1711	2030	MX-5372	2016	MZ209A	562
MPS9700D	2009	MQ2	2009	MR2369	1114	MT0404	2023	MT1889	1123	MX5741	1723	MZ209B	562
MPS9700E	2009	MQ3/2	1104	MR2375	1114	MT0404-1	2023	MT1991	2023	MY-1	1104	MZ209C	562
MPS9700F	2009	MQ6/2	1104	MR3932	2009	MT0404-2	2023	MT2303	2023	MZ-00	1122	MZ-212	563
MPS9700G	2009	MQ8/2	1104	MR3933	2030	MT0411	2023	MT2411	2023	MZ090	562	MZ212	563
MPS9700T	2009	MQ22	1104	MR9600	1104	MT0412	2023	MT2412	2023	MZ4A	565	MZ250	562
MPS9700U	2009	MQ62	1104	MR9601	1101	MT0413	2023	MT3001	2016	MZ4.7T5	565	MZ305	565
MPS9750D	2023	MQ82	1104	MR9602	1104	MT0461	2023	MT3002	2016	MZ4.7T10	565	MZ-305B	565
MPS9750E	2023	MR-1	1104	MR9803	1104	MT0462	2023	MT3011	2016	MZ4.7T20	565	MZ305B	565
MPS9750F	2023	MR-1C	1114	MRB-20C	1104	MT0493	2058	MT4101	2009	MZ5.1T5	565	MZ305C	565
MPS9750G	2023	MR1C	1114	MRD150	2016	MT14	1104	MT4102	2009	MZ5.1T10	565	MZ306C	561
MPS9750OF	2023	MR-1M	1114	MRD450	2016	MT24	1104	MT4102A	2009	MZ5.1T20	565	MZ309	562
MPS9750T	2023	MR1M	1114	MRD821	561	MT44	1104	MT4103	2009	MZ6.2	561	MZ309A	562
MPS96800	2023	MR1CR	1067	MRD825	561	MT64	1104	MT4104	2016	MZ6.2A	561	MZ309B	562
MPS-A05	2016	MR40	1122	MRD827	561	MT84	1114	MT5010	1104	MZ6.2B	561	MZ309C	562
MPSA05	2009	MR47C-H	565	MRD829	561	MT100	2016	MT5011	1104	MZ6.2T5	561	MZ310	562
MPSA06	2009	MR51C-H	565	MRD921	561	MT101	2016	MT5050	1104	MZ6.2T10	561	MZ312	563
MPS-A09	2016	MR51E-H	565	MRD923	561	MT102	2016	MT5051	1104	MZ6.2T20	561	MZ312A	563
MPSA09	2009	MR60	1104	MRD925	561	MT104	1617	MT5100	1102	MZ8.6	562	MZ312B	563
MPS-A10	1617	MR62C-H	561	MRD927	561	MT106	2016	MT5101	1102	MZ-9	562	MZ312C	563
MPSA10	2009	MR62E-H	561	MRD929	561	MT107	2016	MT5102	1104	MZ9.1B	562	MZ409	562
MPSA10-BLU	2009	MR62H	561	MRF501	2016	MT170	1102	MT5103	1104	MZ9.1T5	562	MZ409-02B	562
MPSA10-GRN	2009	MR70	1114	MRF502	2016	MT-302	2030	MT6001	2009	MZ9.1T10	562	MZ409A	562
MPSA10-RED	2009	MR80	1114	MRF531	2030	MT456	1101	MT6002	2009	MZ9.1T20	562	MZ409B	562
MPSA10-WHT	2009	MR90	1114	MRS65[illegible]	2016	MT456A	1122	MT6003	2009	MZ-11	563	MZ409C	562
MPSA10-YEL	2009	MR91C-H	562	MRV-20C	1104	MT457	1104	MT9001	2009	MZ-12	563	MZ412	563
MPSA16	2016	MR91E-H	562	MS-1	1104	MT457A	1104	MT9002	2009	MZ12	563	MZ412A	563
MPSA17	2016	MR100	1114	MS1H	1104	MT458	1102	MT9003	2016	MZ12A	563	MZ412B	563

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MZ412C	563	N7400F	1801	ND10	1114	NL40	1104	NS477	1617	NT0.6C15	564	NTE457	2062
MZ414C	564	N7400N	1801	ND10A	1114	NL50	1104	NS478	1617	NT50C4V7	565	NTE507	1101
MZ500-8	565	N7401	1801	NE550A	1740	NL60	1104	NS479	1617	NT55C4V7	565	NTE519	1122
MZ500-9	565	N7401A	1801	NE550F	1740	NL100B	2016	NS480	1617	NT101	1067	NTE524V13	568
MZ500-11	561	N7401F	1801	NE550N	1740	NN50	1104	NS661	2023	NT1056	1617	NTE552	1104
MZ500-15	562	N7401N	1801	NE555	1723	NN650	2023	NS662	2023	NT1503	2016	NTE778A	038
MZ500-18	563	N-7404A	1802	NE555JG	1723	NN1199	2058	NS663	2023	NT2222A	2009	NTE823	1731
MZ500-20	564	N7404A	1802	NE555N	1723	NN9017	2009	NS664	2023	NT5007	2023	NTE834	1712
MZ500.9	565	N7404F	1802	NE555P	1723	NP50A	1104	NS665	2023	NT5512	565	NTE858M	1715
MZ500.15	562	N7404N	1802	NE555V	1723	NP60A	1104	NS666	2023	NT6034	2016	NTE876	1705
MZ500.18	563	N-7408A	1822	NE556	1728	NP389	1104	NS667	2023	NTC-4	2058	NTE923D	1740
MZ605	561	N7408A	1822	NE556A	1728	NP2222AP	2009	NS668	2023	NTC-5	2016	NTE941M	007
MZ610	561	N7408F	1822	NE556N	1728	NPC0010	1104	NS731	1617	NTC-6	2023	NTE955M	1723
MZ620	561	N7408N	1822	NE4304	2035	NPC0050	1104	NS731A	1617	NTC-7	2009	NTE956	1778
MZ640	561	N7447A	1805	N-EA15X130	2016	NPC069	2009	NS732	2023	NTC-10	2023	NTE960	1770
MZ829	561	N7447AF	1805	N-EA15X131	2016	NPC069-98	2009	NS732A	2023	NTC-11	2009	NTE966	1771
MZ829A	561	N7447B	1805	N-EA15X132	2016	NPC079	2023	NS733	1617	NTC-12	2055	NTE968	1772
MZ939	562	N7447F	1805	N-EA15X134	2016	NPC0100	1104	NS733A	1617	NTC-13	1123	NTE978	1728
MZ939A	562	N7490A	1808	N-EA15X135	2016	NPC06998	2016	NS734	1617	NTC-14	1123	NTE987	1711
MZ939B	562	N7490F	1808	N-EA15X136	1617	NPC108	2062	NS734A	1617	NTC-15	1122	NTE1155	705
MZ1000-5	565	N7490N	1808	N-EA15X137	1617	NPC108A	2062	NS949	1617	NTC-17	1104	NTE1232	703
MZ1000-6	565	N8875F	1801	N-EA15X138	1617	NPC115	2030	NS1000	1101	NTC-19	1104	NTE3007	026
MZ1000-8	561	N8881F	1801	N-EA16X27	1123	NPC167	2016	NS1001	2023	NTE2V130	570	NTE3012	033
MZ1000-12	562	N8881N	1801	N-EA16X29	563	NPC173	2016	NS1356	2016	NTE16	2016	NTE3022	041
MZ-1000-15	563	N5301810001	1122	N-EA16X30	1104	NPC187	2030	NS1500	1617	NTE17	2023	NTE3026	025
MZ1000-15	563	N5301811001	1122	NF520	2035	NPC188	2016	NS1510	2016	NTE18	2009	NTE3030	036
MZ1000-17	564	N5302541039	561	NF522	2035	NPC189	2030	NS1672	2023	NTE85	2009	NTE3047	134
MZ1005	565	N5302660001	1122	NF523	2035	NPC211N	2062	NS1673	2023	NTE107	2016	NTE3056	075
MZ1006	561	N5302990002	1104	NF531	2035	NPC212N	2062	NS1674	2023	NTE108	2016	NTE3115	081
MZ1009	562	N5303020003	563	NF533	2035	NPC213N	2062	NS1675	2023	NTE108-1	2016	NTE3131	030
MZ1012	563	N6102230001	2023	NF550	1104	NPC214N	2062	NS1861	2023	NTE109	1123	NTE4001B	2401
MZ2360	1122	N6102240001	2009	NF4302	2062	NPC215N	2062	NS1862	2023	NTE110MP	1123	NTE4011B	2411
MZ2361	1122	N6102320002	2009	NF4303	2062	NPC216N	2062	NS1863	2023	NTE114	1101	NTE4013B	2413
MZ4624	565	N6103690001	2023	NF5485	2035	NPC290	2030	NS1864	2023	NTE115	1101	NTE4017B	2417
MZ4625	565	N6104340001	2023	NF5486	2035	NPC312N	2035	NS1972	1617	NTE116	1104	NTE4049	2449
MZ4627	561	N6104350001	2009	NGP3002	1123	NPC737	1617	NS1973	1617	NTE117	1114	NTE5009A	565
MZL4.7A10	565	N6104350004	2009	NGP3003	1143	NPC1075	2009	NS1974	1617	NTE120	1101	NTE5010A	565
MZL4.7B10	565	N6104420001	2009	NGP5002	561	NPD0531	1122	NS1975	1617	NTE123	1617	NTE5013A	561
MZL5.1A10	565	N6104980001	2023	NGP5007	562	NPS404	2023	NS2000	1114	NTE123A	1617	NTE5017A	562
MZL5.1B10	565	N6105000001	2009	NGP5010	563	NPS404A	2023	NS2006	1114	NTE123AP	2009	NTE5018A	562
MZL6.2A10	561	N6105000004	2009	NJ100A	2016	NPS6512	2009	NS2007	1114	NTE125	1114	NTE5021A	563
MZL6.2B10	561	N6124790001	1770	NJ100B	1617	NPS6513	2009	NS2008	1114	NTE128	2030	NTE5024A	564
MZL8.7A10	562	NA-13	1104	NJ101B	2023	NPS6514	2009	NS2100	2030	NTE130	2041	NTE5069A	565
MZL8.7B10	562	NA13	1104	NJ102C	1617	NPS6518	2027	NS2101	2030	NTE132	2035	NTE5070A	561
MZL9.1A10	562	NA22	1104	NJ107	2030	NPS6519	2009	NS3000	1114	NTE133	2035	NTE5073A	562
MZL9.1B10	562	NA25	1104	NJ202B	2016	NPS6520	2009	NS3006	1114	NTE135A	565	NTE5304	1173
MZL12A10	563	NA-32	1104	NJM78M12	1771	NPS6522	2009	NS3007	1114	NTE137A	561	NTE5400	1067
MZL12B10	563	NA32	1104	NJM555D	1723	NPS6523	2009	NS3008	1114	NTE139A	562	NTE5401	1067
MZL15A10	564	NA33	1104	NJM4558D	038	NPSA20	2016	NS3039	2016	NTE141A	563	NTE5402	1067
MZL15B10	564	NA-35	1104	NJM4558D-1	038	NR041	2009	NS3040	2016	NTE142A	563	NTE5403	1067
MZL312	563	NA35	1104	NJM4558DD	038	NR041E	2009	NS3041	2016	NTE145A	564	NTE5404	1067
MZ-OO	1122	NA36	1104	NJM4558D-K	038	NR-071AU	1617	NS3300	2016	NTE152	2020	NTE5405	1020
MZU4.7A10	565	NA-42	1104	NJM4558DM	038	NR091ET	2009	NS3903	1617	NTE153	2027	NTE5408	1067
MZU4.7B10	565	NA42	1104	NJM4558DMA	038	NR201AY	1617	NS3904	1617	NTE156	1114	NTE5409	1020
MZU5.1A10	565	NA-45	1104	NJM4558K	038	NR-261AS	2009	NS3905	2023	NTE159	2023	NTE5411	1067
MZU5.1B10	565	NA45	1104	NJM4559D	038	NR261AS	1617	NS3906	2023	NTE159MCP	2009&23	NTE5412	1067
MZU6.2A10	561	NA46	1104	NKT4055	2043	NR271AY	1617	NS6001	2023	NTE161	2016	NTE5413	1067
MZU6.2B10	561	NA-62	1104	NKT10339	1617	NR401	1617	NS6062	2023	NTE164	2055	NTE5414	1067
MZU8.7A10	562	NA-63	1104	NKT10419	1617	NR401EG	1617	NS6063	2023	NTE165	2055	NTE5415	1020
MZU8.7B10	562	NA-65	1104	NKT10439	1617	NR401EH	1617	NS6064	2023	NTE166	1171	NTE5452	1067
MZU9.1A10	562	NA-66	1104	NKT10519	1617	NR421	2016	NS6065	2023	NTE168	1173	NTE5453	1067
MZU9.1B10	562	NA-74	1114	NKT12329	1617	NR421DG	2016	NS6112	2016	NTE177	1122	NTE5454	1067
MZU12A10	563	NA74	1114	NKT12429	1617	NR-431AS	1617	NS6113	2016	NTE178MP	1122	NTE5455	1067
MZU12B10	563	NA-75	1114	NKT13329	1617	NR441	1617	NS6114	1617	NTE186	2017	NTE5456	1020
MZU15A10	564	NA75	1114	NKT13429	1617	NR441EG	1617	NS6115	1617	NTE196	2020	NTE5457	1020
MZU15B10	564	NA-76	1114	NKT16229	2016	NR441EN	1617	NS6207	1617	NTE199	2016	NTE5473	1020
MZU82A10	562	NA76	1114	NKT20329	2023	NR461	2009	NS6210	1617	NTE219	2043	NTE5511	1067
MZX9.1	562	NA-84	1114	NKT20339	2023	NR461AA	2016	NS6211	2023	NTE229	2058	NTE5512	1020
N1X	2030	NA84	1114	NKT35219	2016	NR461AF	2016	NS6241	2023	NTE233	2009	NTE5600	1000
N2A	1123	NA-85	1114	NKT80111	2062	NR-461AS	1617	NS7261	2016	NTE234	2023	NTE5601	1000
N2A(DIODE)	1123	NA85	1114	NKT80112	2062	NR461EG	2009	NS7262	1617	NTE238	2055	NTE5602	1000
N-41	1104	NA-86	1114	NKT80113	2062	NR461EH	2009	NS7267	2016	NTE241	2020	NTE5603	1000
N48	1123	NA86	1114	NKT80211	2035	NR601BT	2023	NS9400	2030	NTE261	2068	NTE5604	1000
N203A	1067	NA-104	1114	NKT80212	2035	NR621AT	2023	NS9420	2030	NTE280	2041	NTE5605	1000
N203B	1067	NA104	1114	NKT80213	2035	NR621EU	2023	NS9500	2030	NTE281	2043	NTE5608	1000
N203C	1020	NA-105	1114	NKT80214	2035	NR631AY	2023	NS9540	2030	NTE289	2009	NTE5629	1000
N203YY	1067	NA105	1114	NKT80215	2062	NR7916	2035	NS9710	2016	NTE289A	2009	NTE5633	1000
N-756A	562	NA2002	703	NKT80216	2062	NS200	1617	NS9728	2030	NTE290	2023	NTE5640	1000
N3563	1617	NAM383	703	NKT800112	2035	NS316	2035	NS9729	2030	NTE290A	2023	NTE5641	1000
N4001	2401	NB011EN	2009	NKT800113	2035	NS345	2016	NS9730	2030	NTE291	2020	NTE5642	1000
N4011	2411	NB013	2016	NL-2N683	2009	NS381	2016	NS9731	2030	NTE312	2035	NTE5650	1000
N4013	2413	NB021EV	2023	NL5	1104	NS382	2016	NS45006	2009	NTE319	2009	NTE5651	1000
N4049	2449	NB021EV(N.S.)	2023	NL10	1104	NS383	1617	NSDU01A	2017	NTE319P	2009	NTE5652	1000
N5406	1122	NB121	2023	NL15	1104	NS384	1617	NSL5057	041	NTE331	2020	NTE5800	1141
N5741V	007	NC29	1123	NL20	1104	NS404	2023	NSL5076A	026	NTE340	2009	NTE5801	1143
N-7400A	1801	NCS9018D	2016	NL25	1104	NS475	1617	NSS1021	1114	NTE377	2020	NTE5802	1143
N7400A	1801	ND-07001	1801	NL30	1104	NS476	1617	NT0.6C12	563	NTE451	2062	NTE5803	1144

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NTE5804	1144	OA541	1123	OS70	1123	P2B	2027	P300G	1144	PA7001/527	1802	PD6007A	565
NTE7400	1801	OA909	1123	OS536G	2009	P2B5	1104	P300GG1	1104	PA7615	1104	PD6009	561
NTE7401	1801	OA2002	1122	OS16308	1104	P2C5	1104	P346	2016	PA8260	2016	PD6009A	561
NTE7404	1802	OA2005	1122	OSS-16308	1104	P2D5	1104	P400	1104	PA8261	564	PD6013	562
NTE7408	1622	OA12612	563	OSS16308	1123	P2E	2023	P580	1114	PA8543	2016	PD6013A	562
NTE7447	1805	OAZ200	565	OSS-16685	1123	P2G	2023	P600	1104	PA8645	1104	PD6016	563
NTE7490	1808	OAZ201	565	OSS16685	1123	P2GE	2023	P800	1114	PA8900	2017	PD6016A	563
NTE75188	2520	OAZ203	561	OSS36503	1104	P2H	2023	P1000	1114	PA9004	2016	PD6018	564
NTE75189	2521	OAZ207	562	OSS36685	1104	P2K	2027	P1000A	2023	PA9005	2016	PD6018A	564
NTP6V2	561	OAZ209	565	OSS-36885	1104	P2L	2023	P1055	1123	PA9006	1617	PD6047	565
NTP9V1	562	OAZ210	561	OSS36885	1104	P2M-1	2023	P1087	2035	PA9160	1104	PD6048	565
NTP12	563	OAZ212	562	OY101	1104	P2M-2	2023	P1087E	2035	PA9267	561	PD6050	561
NTP15	564	OAZ213	563	OY5061	1104	P2M-3	2023	P1172	1122	PA10556	1104	PD6054	562
NU34	1123	OAZ240	565	OY5062	1104	P2P	2023	P1172-1	1122	PA10887	1104	PD6057	563
NV10A	1114	OAZ241	565	OY5063	1104	P2S	2023	P2221	2009	PB6013	2023	PD6059	564
O2Z12A	563	OAZ243	561	OY5064	1104	P2W	2023	P2221A	2009	PB6013A	2023	PD6202	565
O2Z12GR	563	OAZ247	562	OY5065	1104	P2Y	2023	P2222	2009	PB6013B	2023	PD6209	562
O4-8054-3	1104	OAZ269	565	OY5066	1104	P3/2H	1104	P2222A	2009	PB6014	2023	PDR25	1101
O4-8054-4	1104	OAZ270	561	OY5067	1114	P3A5	1104	P2271	2041	PB6014A	2023	PDR50	1101
O4-8054-7	1104	OAZ272	562	OZ5.1T5	565	P3B5	1104	P2440	1114	PBC107	2016	PE210	2058
O101	1104	OAZ273	563	OZ5.1T10	565	P3C	2023	P2906	2023	PBC107A	2016	PE210C	2058
O573510	2016	OC200	2023	OZ6.2T5	561	P3C5	1104	P2906A	2023	PBC107B	2016	PE254A	2058
O575005	1123	OC201	2023	OZ6.2T10	561	P3D5	1104	P2907	2023	PBC108	2016	PE254B	2058
OA2	1101	OC202	2023	OZ12T5	563	P3W	2043	P2907A	2023	PBC108A	2016	PE254C	2058
OA6	1123	OC203	2023	OZ12T10	563	P3Z	2023	P3139	2041	PBC108B	2016	PE401	1104
OA7	1123	OC204	2023	OZ15T5	564	P4A5	1104	P4069	2030	PBC108C	2016	PE401N	1104
OA9	1123	OC205	2023	OZ15T10	564	P4B5	1104	P4326	1122	PBC109	2016	PE402	1104
OA9D	1123	OC206	2023	P0100AD	1067	P4C	2023	P5100	1114	PBC109B	2016	PE403	1104
OA10	1141	OC207	2023	P0100BA	1067	P4C5	1104	P5149	2041	PBC109C	2016	PE404	1104
OA47	1123	OC430	2023	P0100BB	1067	P4D5	1104	P5152	1617	PBC182	2016	PE405	1104
OA50	1123	OC430K	2023	P0100BD	1067	P4G	2023	P5153	1617	PBC183	2009	PE406	1104
OA-70	1123	OC440	2023	P0100CD	1020	P4J148	2020	P-6006	1122	PBE3322	1123	PE407	1114
OA70	1123	OC440K	2023	P0100DA	1020	P4K	2023	P7109	1114	PBM6004	2023	PE408	1114
OA71	1123	OC443	2023	P0100DB	1020	P4P	2023	P7394	1122	PC02P1/2	1104	PE409	1114
OA71C	1123	OC443K	2023	P0100DD	1020	P4R	2023	P8393	1617	PC0211/2	1104	PE410	1114
OA72	1123	OC445	2023	P0102AA	1067	P4W	2027	P8394	1617	PC0.2P11/2	1104	PE501	1104
OA73	1123	OC445K	2023	P0102AB	1067	P4Y	2023	P9459	1104	PC100	2020	PE502	1104
OA73C	1123	OC449	2023	P0102BA	1067	P4Z	2030	P10115	1104	PC110	2020	PE503	1104
OA74	1123	OC449K	2023	P0102BB	1067	P5A5	1104	P10115A	1114	PC-713U	2020	PE504	1104
OA74A	1123	OC450	2023	P0102CA	1020	P5B	2023	P10155	1123	PC1007	2023	PE505	1104
OA79	1123	OC460	2023	P0102CB	1020	P5B5	1104	P10156	1104	PC1007A	2023	PE506	1104
OA81	1123	OC460K	2023	P0102DA	1020	P5C	2023	P10156A	1114	PC1008	2023	PE507	1114
OA81C	1123	OC463	2023	P0102DB	1020	P5C5	1104	P21316	1104	PC1008A	2023	PE508	1114
OA85	1123	OC463K	2023	P0103AD	1067	P5D	2023	P21317	1104	PC1008B	2023	PE509	1114
OA85C	1123	OC465	2023	P0103BA	1067	P5D5	1104	P21344	562	PC4004	1104	PE510	1114
OA-90	1123	OC465K	2023	P0103BB	1067	P5H	2027	P21443	1104	PC7805H	1770	PE3001	2009
OA90	1123	OC466	2023	P0103BD	1067	P5U	2027	P38103/507-10	564	PC17805H	1770	PE3002	2016
OA-90(G)	1123	OC466K	2023	P0103CD	1020	P6/2H	1104	P633024C(SYLVANIA)		PC-20066	2016	PE3015	2009
OA90-FM	1123	OC467	2023	P0103DA	1020	P6A5	1104		2030	PD05	1171	PE5010	2009
OA90A-G	1123	OC467K	2023	P0103DB	1020	P6B5	1104	P633024G	2030	PD10	1171	PE5013	2009
OA90AG	1123	OC468	2023	P0103DD	1020	P6C5	1104	PA069	1104	PD40	1173	PE5015	2009
OA90FM	1123	OC468K	2023	P1A5	1104	P6D5	1104	PA070	1104	PD101	1104	PE5025	2009
OA90FV	1123	OC469	2023	P1B	2023	P6RP8	1114	PA071	1104	PD102	1104	PE5030	2009
OA90G	1123	OC469K	2023	P1B5	1104	P6RP10	1114	PA3	1104	PD103	1104	PE5030A	2009
OA90GA	1123	OC470	2023	P1C	2023	P7A5	1104	PA9D522/1	1171	PD104	1104	PE5030B	2009
OA90LF	1123	OC470K	2023	P1C5	1104	P7B5	1104	PA200	1104	PD105	1104	PE5031	2016
OA90M	1123	OC700	2023	P1CG	2023	P7C5	1104	PA300	1104	PD106	1104	PEP2	1617
OA90MLF	1123	OC700A	2023	P1D	2023	P7D5	1104	PA305	1104	PD107	1104	PEP5	1617
OA90Z	1123	OC700B	2023	P1D5	1104	P8/2H	1104	PA305A	1104	PD107A	1104	PEP6	1617
OA91	1123	OC702	2023	P1E	2043	P8H	2027	PA310	1104	PD108	1104	PEP7	1617
OA92	1123	OC702A	2023	P1E-1BLK	2043	P16	1101	PA310A	1104	PD110	1104	PEP8	1617
OA-95	1122	OC702B	2023	P1E-1BLU	2043	P17	1101	PA315	1104	PD111	1104	PEP9	1617
OA95	1123	OC704	2023	P1E-1GRN	2043	P20	1104	PA315A	1104	PD114	1114	PEP1001	2016
OA99	1123	OC740	2023	P1E-1RED	2043	P32H	1104	PA-320	1104	PD115	1114	PEP2001	2030
OA126/5	565	OC740G	2023	P1E-1VIO	2043	P61XXC002	1723	PA320	1104	PD116	1114	PET-101-1	2016
OA126/12	563	OC740M	2023	P1E-2BLK	2043	P61XXC027	1712	PA320A	1104	PD122	1104	PET1002	1617
OA127	1104	OC7400	2023	P1E-2BLU	2043	P62D1S1588	1122	PA320B	1104	PD125	1104	PET1075	2016
OA128	1104	OC742	2023	P1E-2GRN	2043	P62H	1104	PA325	1104	PD129	1104	PET2001	1617
OA129	1104	OC742G	2023	P1E-2RED	2043	P62X011	1104	PA325A	1104	PD130	1104	PET2002	1617
OA130	1104	OC742M	2023	P1E-2VIO	2043	P62X020	2023	PA325B	1104	PD131	1104	PET3001	2016
OA131	1104	OC7420	2023	P1E-3BLK	2043	P67	2023	PA330	1104	PD132	1104	PET3002	2016
OA132	1104	OC7400	2023	P1E-3BLU	2043	P82H	1104	PA330A	1104	PD133	1104	PET3702	2023
OA134Q	1123	OC7420	2023	P1E-3GRN	2043	P100	1104	PA330B	1104	PD134	1104	PET3703	2023
OA150	1123	OF156	1122	P1E-3RED	2043	P100A	1104	PA340	1104	PD135	1104	PET3704	1617
OA159	1123	OF160	1104	P1E-3VIO	2043	P100B	1104	PA340A	1104	PD154	1104	PET3705	2009
OA160	1123	OF162	1122	P1H	2023	P100D	1104	PA340B	1104	PD155	1104	PET3706	1617
OA161	1123	OF164	1104	P1J	2023	P100G	1104	PA350	1104	PD910	1104	PET3903	2009
OA172	1123	OF173	1123	P1N	2023	P100J	1104	PA350A	1104	PD913	1114	PET3904	2009
OA174	1123	OF305	1123	P1N-1	2023	P150A	1104	PA360	1104	PD914	1114	PET3905	2023
OA180	1104	OF449	1122	P1N-2	2023	P150B	1104	PA360A	1104	PD915	1114	PET3906	2023
OA182	1123	ON67A	1123	P1N-3	2023	P150D	1104	PA380	1114	PD916	1114	PET4001	1617
OA200	1122	ON271	2009	P1P	2023	P150G	1104	PA400	1104	PD1001	2009	PET4002	1617
OA202	1122	ON274	1617	P1P-1	2023	P150J	1104	PA600	1104	PD1002	2009	PET4003	2016
OA205	1122	OS-1D	1104	P1V-4	2027	P200	1104	PA1000	2023	PD1011	1171	PET4058	2023
OA210	1104	OS-4D	1104	P1W	2023	P300A	1141	PA1001	2023	PD6006	565	PET4059	2023
OA211	1104	OS-6D	1104	P2A	2023	P300B	1143	PA7001/521	1801	PD6006A	565	PET4060	2023
OA214	1104	OS-8D	1114	P2A5	1104	P300D	1143	PA7001/526	1801	PD6007	565	PET4061	2023

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PET4062	2023	PL-176-049-9-002	2009	PN71	2023	PP3250	2020	PS2346	1114	PT2635	2020	Q-00469C	2009
PET4124	2009	PL-177-006-9-002	2023	PN72	2023	PP3310	2020	PS2347	1114	PT2640	2017	Q-00484R	2009
PET4125	2023	PL-182-014-9-002(FET		PN107	1617	PP3312	2020	PS2411	1104	PT2660	2017	Q-00569C	2009
PET4126	2023		2035	PN108	2009	PPR1006	2017	PS2412	1104	PT2760	1617	Q-00584R	2009
PET6001	1617	PL1021	2016	PN109	2009	PPR1008	2017	PS2413	1104	PT3141	1617	Q-00784R	2009
PET6002	1617	PL1022	2016	PN204	1104	PPT720	1617	PS2415	1104	PT3141A	1617	Q-00869C	1617
PET8000	1617	PL1023	2016	PN350	2041	PR51S	565	PS2416	1114	PT3141B	1617	Q-00984R	2023
PET8001	1617	PL1024	2016	PN917	2016	PR60S	565	PS2417	1114	PT3151A	2009	Q0-419	2023
PET8002	1617	PL1025	2016	PN918	2016	PR617	563	PS4559	1104	PT3151B	1617	Q-0115C	2009
PET8003	1617	PL1026	2016	PN929	2016	PR620	564	PS4560	1103	PT3151C	1617	Q-01115C	2009
PET8004	1617	PL1031	2023	PN930	2009	PR804	565	PS4725	1104	PT3500	1617	Q-01169C	2030
PET8005	1617	PL1033	2023	PN930(NSC)	2009	PR5400	1114	PS5175	2009	PT3502	2030	Q-01184R	1617
PET8005A	1617	PL1034	2023	PN930(NTLB)	2009	PR5401	1114	PS5300	1103	PT3503	2017	Q-02115C	2009
PET8006	1617	PL1051	2016	PN1613	2030	PR5402	1114	PS5301	1103	PT4690	2017	Q-03115C	2009
PET8006A	1617	PL1052	1617	PN1711	2030	PR5403	1114	PS5302	1103	PT4800	1617	Q-04115C	2009
PET8007	1617	PL1053	2016	PN2221A	2009	PR5404	1114	PS5303	1104	PT4816	2016	Q-05115C	2009
PET8007A	1617	PL1054	1617	PN2222	2009	PR5405	1114	PS5304	1104	PT4830	2016	Q-06115C	2009
PET8101	2016	PL1055	2016	PN2222A	2009	PR5406	1114	PS6468	565	PT5693	2020	Q-07115C	2009
PET8200	2030	PL1061	2016	PN2369	2009	PR5407	1114	PS8905	565	PT6618	2017	Q-08115C	2009
PET8201	2016	PL1062	2016	PN2369A	2009	PR5408	1114	PS8906	565	PT6669	2017	Q-09115C	2009
PET8202	2030	PL1063	2016	PN2484	2016	PR-5534S	018	PS8908	561	PT6696	2017	Q0V60538	1617
PET8203	2030	PL1064	2016	PN2904	2023	PR5534S	018	PS8912	562	PT72130	1104	Q1B	1104
PET8204	2009	PL1065	2016	PN2904A	2023	PRS3017	565	PS8915	563	PT-72130-1	1144	Q1H	1104
PET8250	2016	PL1066	2016	PN2905A	2023	PRT-101	1617	PS8917	564	PTC101	2030	Q-1N914	1122
PET8251	2016	PL1067	2016	PN2906	2023	PRT-104	1617	PS10019B	562	PTC103	2023	Q2	2016
PET8300	2016	PL1081	2016	PN2906A	2023	PRT-104-1	1617	PS10022B	563	PTC115	2009	Q-2N5225	2009
PET8301	2023	PL1082	2016	PN2907	2023	PRT-104-2	1617	PS10024B	564	PTC119	2041	Q-2N5226	2023
PET8303	2023	PL1083	2030	PN2907A	2023	PRT-104-3	1617	PS10063	562	PTC121	2009	Q3	2016
PET8304	2023	PL1084	2030	PN2908	2023	PRT-104-4	2030	PS10066	563	PTC126	2016	Q3/2	1104
PET9001	2009	PL1091	2035	PN3250	2023	PS005	1104	PS10068	564	PTC129A	2055	Q4B	1104
PET9002	1617	PL1092	2035	PN3250A	2023	PS010	1104	PSA20	2009	PTC130	2055	Q5	2016
PET9021	2030	PL1093	2035	PN3251	2023	PS015	1104	PSA56	2023	PTC131	2023	Q6/2	1104
PET9022	2030	PL1094	2035	PN3251A	2023	PS020	1104	PSA70	2023	PTC132	2016	Q7-C0710XBE	2009
PG4001	1101	PL1101	2023	PN3563	2016	PS025	1104	PT-029	2020	PTC136	1617	Q7-C0735XBT	2009
PG4002	1103	PL1102	2023	PN3564	2016	PS030	1104	PT-3	1104	PTC139	2009	Q7-C1318XDN	2030
PG4003	1102	PL1103	2023	PN3565	2009	PS035	1104	PT3	1104	PTC140	2041	Q7-K0033XBE	2035
PG4004	1103	PL1104	2023	PN3566	2009	PS040	1104	PT5	1104	PTC143	2017	Q8/2	1104
PG4005	1104	PL1111	2016	PN3638	2023	PS050	1104	PT-5B	1104	PTC146	2055	Q32	1104
PG4006	1114	PL1112	2016	PN3638A	2023	PS060	1104	PT5B	1104	PTC149	2043	Q-35	1617
PG4007	1114	PL1113	2016	PN3641	2009	PS0125	1104	PT6D22/1	1171	PTC151	2035	Q-36	2023
PGR-24	1143	PL4001L	1101	PN3642	2009	PS1A	1104	PT6D22-1	1171	PTC152	2035	Q49	1123
PH9-221	1171	PL4003L	1102	PN3643	2009	PS-1.5-2	1114	PT9C22/1	1114	PTC154	2020	Q50	1123
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PH25C22/21	1104	PL4061	2016	PN4122	2023	PS405	1104	PT-530	1104	PTC203	1114	Q60	1104
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PH208	1104	PM101-1	1102 N2	PN4143	2023	PS425	1104	PT-550	1104	PTC206M	1123	Q301	2016
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PL-152-044-9-001	562	PMT023	2016	PN5135	2009	PS628	1104	PT897	1617	PU6C22	1104	Q5053(,2SC536)	2009
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RS05	1141
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RS104	1173
RS-107	1617
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RS-109	2016
RS-110	2023
RS128	1617
RS132	2030
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RS222	1171
RS294	1173
RS220AF	1104
RS230AF	1104
RS-253C	1122
RS-253S	1122
RS-267S	1122
RS-272US	1122
RS-279US	2016
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RS4001	2401
RS4011	2411
RS4013	2413
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RS7101	2016
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RS7103	1617
RS7104	2016
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RS7106	2016
RS7107	2016
RS-7108	2016

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RS7109	2016
RS7110	2016
RS7111	1617
RS7112	2016
RS7113	2016
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RS7219	2016
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RS7225	2016
RS7226	1617
RS7227	2016
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RS7229	2016
RS7230	2016
RS7231	2016
RS7232	1617
RS7233	2058
RS7234	2009
RS7235	2009
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RS7237	2016
RS7238	2009

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RS7241	2009	RS8113	2030	RT-263	1123	RT5204	2009	RT7511	1617	RU-3B	1104	RVDSD-1U	1104
RS7242	2009	RS8430	1104	RT-267	1617	RT5205	2016	RT7514	2009	RU3B	1104	RVDSD-1Y	1104
RS7333	2016	RS8442	2009	RT-268	1617	RT5206	2009	RT7515	1617	RUD2DP22/1B	1104	RVDSG-5N	1114
RS7334	2016	RS8503	2009	RT-269	2023	RT5207	2023	RT7517	1617	RV06	1104	RVDSG-5P	1114
RS7400	1801	RS9510	2016	RT-270	2023	RT5208	2016	RT7518	1617	RV1	1104	RVDSMIA02TPA	1104
RS7404	1802	RS9511	2016	RT-302	2009	RT5212	1123	RT7528	1617	RV2	1104	RVDSR3AM2N	1104
RS7405	1617	RS9512	2016	RT-303	2023	RT5213	1123	RT7538	1123	RV6.2	561	RVDVD1250M	1122
RS7406	1617	RSLNA0004CEZZ	1101	RT304	2009	RT5214	1123	RT7539	561	RV555NB	1723	RVS2SC645	2016
RS7407	1617	RSWY/16L7Z	1123	RT-308	2016	RT5217	1122	RT7557	2009	RV556DB	1728	RVTCS1381	1617
RS7408	1617	RT-100	1617	RT-309	2009	RT5379	1123	RT7559	2016	RV741NB	007	RVTCS1382	2023
RS7408(IC)	1822	RT100	1617	RT-312	1617	RT5385	1104	RT7634	1104	RV1017	1122	RVTCS1383	1617
RS7409	1617	RT-101	1617	RT-313	2016	RT5401	2030	RT7636	1123	RV1059	2023	RVTCS1384	2016
RS7410	1617	RT-102	2009	RT476	2009	RT5402	2030	RT7638	1617	RV1068	2016	RVTCS1473	2016
RS7411	1617	RT-103	2023	RT482	2030	RT5403	2030	RT7689	1123	RV1189	1102	RVTMC00921-3	1101
RS7412	1617	RT103	1617	RT483	2030	RT5404	2030	RT7703	2016	RV1226	1122	RVTMK10-2	2035
RS7413	1617	RT-104	2016	RT484	2030	RT5435	2016	RT7704	2016	RV1395	2009	RVTMK10-E	2035
RS7415	1617	RT104	2009	RT697M	1617	RT5464	2016	RT7845	1617	RV1424	1104	RVTS22410	1617
RS7421	1617	RT-105	2016	RT699M	2030	RT5465	2016	RT7848	1141	RV1467	2016	RVTS22411	2023
RS7447	1805	RT105	1617	RT-929-H	1617	RT5470	1123	RT7849	1104	RV1468	2016	RX090	562
RS7490	1808	RT106	2023	RT929H	1617	RT5472	1104	RT7850	1104	RV1469	2016	RX-DX0131CEZZ	1104
RS7504	1617	RT-107	2016	RT930H	2016	RT5551	2009	RT7851	1123	RV1470	2016	RY23	1102
RS7510	1617	RT107	2016	RT1008	1123	RT5554	1122	RT7943	2009	RV1471	2009	RY24	1103
RS7511	2016	RT-108	2016	RT1106	1123	RT5738	1123	RT7945	2030	RV1473	2030	RZ-3	1114
RS7512	2016	RT108	2016	RT1108	1123	RT5793	561	RT7946	1122	RV1474	2009	RZ4.7	565
RS7513	2009	RT-108A	1104	RT1184	1123	RT5900	2009	RT8047	2016	RV1476	1144	RZ5.1	565
RS7513-15	2009	RT-112	2016	RT1395	1617	RT5901	1617	RT8193	1617	RV1478	1104	RZ6.2	561
RS7514	2009	RT112	2016	RT1595	1104	RT5902	2016	RT8195	1617	RV1479	1123	RZ9.1	562
RS7515	2009	RT-113	2016	RT1667	1123	RT5903	2016	RT8197	2009	RV2070	2016	RZ12	563
RS7516	2009	RT113	1617	RT1669	1122	RT5904	2016	RT8198	2009	RV2071	1122	RZ12A	563
RS7517	2009	RT-114	2030	RT-1689	1123	RT5905	2009	RT8201	2009	RV2072	1104	RZ15	564
RS7517-19	2009	RT114	1617	RT1689	1122	RT5906	2030	RT8231	1104	RV2213	562	RZ15A	564
RS7518	2009	RT126	1617	RT1840	1104	RT5907	2030	RT8330	2009	RV2248	2016	RZZ4.7	565
RS7519	2009	RT-126A	2023	RT2016	1617	RT5908	1123	RT8331	2035	RV2249	2009	RZZ5.1	565
RS7520	2016	RT-131	2041	RT2061(G.E.)	1122	RT5909	1122	RT8332	1617	RV2250	1104	RZZ6.2	561
RS7521	2009	RT131	2041	RT2309	2016	RT5911	1104	RT8333	2016	RV2260	2023	RZZ9.1	562
RS7522	2016	RT-133	2020	RT2332	1617	RT5912	1123	RT8335	2020	RV-2289	1104	RZZ12	563
RS7523	2016	RT-134	2016	RT2334	1123	RT5939	1123	RT8336	2027	RV2289	1104	S	562
RS7524	2016	RT-139	2055	RT2451	1123	RT6119	1123	RT8337	2016	RV2351	2023	S0013	2023
RS7525	2009	RT-140	2055	RT2452	1123	RT6157	2016	RT8338	2027	RV2353	2023	S0026	2023
RS7526	2009	RT-141	2030	RT2669	1104	RT6158	2016	RT8339	562	RV2354	2009	S001683	2030
RS7527	2009	RT141	2030	RT2694	1123	RT6159	2016	RT8340	1104	RV2355	2023	S0-4295-10	2041
RS7528	2009	RT-150	2020	RT2914	2009	RT6160	2016	RT8527	2016	RV4558DE	038	S02	1122
RS7529	2009	RT150	2020	RT2915	2016	RT6179	1123	RT8665	1114	RV4558NB	038	S04	1122
RS7530	2009	RT-151	2027	RT3063	1617	RT6180	1123	RT8666	2016	RV4559DE	038	S-05	1104
RS7532	2016	RT151	2027	RT3064	1617	RT6181	1123	RT-8667	2035	RV4559NB	038	S05	1104
RS7533	2016	RT-152	2017	RT3065	2023	RT6182	1123	RT8667	2035	RVD0.8C22/1A	1104	S-05/01	1114
RS7542	2009	RT152	2017	RT3069	2016	RT6183	1123	RT8668	2058	RVD1E1LF	1104	S-05-005	1104
RS7543	2009	RT-154	2041	RT3070	2016	RT6184	1123	RT8669	2016	RVD1K110	1123	S-05-01	1104
RS7544	2009	RT154	2030	RT3071	2023	RT6189	1123	RT8670	2023	RVD1N34A	1123	S-05-02	1104
RS7555	2009	RT-155	2027	RT3072	1123	RT6201	2058	RT8671	1123	RVD1N4739	562	S-05-04	1104
RS7606	1617	RT155	2027	RT3095	2016	RT6202	2058	RT8840	1104	RVD1S554	1122	S-05-06	1104
RS7607	1617	RT-158	2020	RT3099	1123	RT6203	2016	RT8841	1104	RVD2-1K110	1123	S-05-08	1114
RS7609	1617	RT-164	2020	RT3225	2016	RT-6204	2009	RT8863	2016	RVD2DP	1104	S-05-10	1114
RS7610	1617	RT-166	2020	RT3226	2016	RT6204	2009	RT8895	2023	RVD2DP22/1B	1104	S010G	1114
RS7611	1617	RT-172	1104	RT3227	2016	RT6322	1104	RT61012	1123	RVD2DP22/1C	1171	S031A	1617
RS7612	1617	RT-175	2035	RT3228	1617	RT6332	1104	RTC0103	1067	RVD2DP22/18	1104	S037	1617
RS7613	1617	RT175	2035	RT3232	2016	RT6600	2016	RTJ0103	1067	RVD2DP221B	1171	S042P	2035
RS7614	1617	RT-176	2035	RT3233	1123	RT6600MHF25	2009	RTJ0106	1067	RVD2DP221P	1104	S074-007-001	1122
RS7620	1617	RT176	2035	RT3336	1123	RT6601	2058	RTJ0110	1067	RVD2P22/1B	1104	S0300KS2	1067
RS7621	1617	RT-177	2035	RT3443	1104	RT6602	2058	RTJ0120	1067	RVD4B265J2	1104	S0303MS2	1067
RS7622	1617	RT-187	2009	RT3469	1123	RT6605	1114	RTJ0130	1020	RVD8MB4	1171	S0303MS3	1067
RS7623	1617	RT-188	2030	RT3558	1104	RT6619	1123	RTJ0140	1020	RVD8MBA	1104	S0303RS2	1067
RS7624	2009	RT188	2030	RT3565	1617	RT6728	1123	RTJ0201	1067	RVD10D1	1104	S0303RS3	1067
RS7625	2009	RT-194	2041	RT3567	2009	RT6729	1104	RTJ0203	1067	RVD10DC1	1104	S0304F1	1067
RS7626	2009	RT-197	2020	RT3585	1104	RT6731	1123	RTJ0206	1067	RVD10DC1R	1104	S-0501	1104
RS7627	2009	RT-200	1123	RT3671	564	RT6732	2009	RTJ0210	1067	RVD10E1	1104	S0501	1104
RS7628	2009	RT-203	1114	RT3858	1104	RT6733	2009	RTJ0215	1020	RVD10E1LF	1104	S0501L	1104
RS7634	2009	RT-210	1114	RT3981	1104	RT6735	2041	RTJ0220	1067	RVD10E11F	1104	S0503LS3	1114
RS7635	2009	RT210	1114	RT4050	1104	RT6737	2009	RTJ0225	1020	RVD12B-1	1171	S0503M	1067
RS7636	2009	RT-212	1104	RT4069	1104	RT6787	2016	RTJ0230	1020	RVDC08P1	1104	S0503MS2	1067
RS7637	2009	RT-213	1104	RT4232	1104	RT6791	1104	RU-1	1104	RVDCD0033	561	S0503MS3	1067
RS7638	2009	RT213	1104	RT4293	1123	RT6921	2009	RU1	1104	RVDD124B	1171	S0503RS2	1067
RS7639	2009	RT-214	1104	RT4644	1123	RT6921MHF25	2009	RU-1A	1104	RVDD1245	1171	S0503RS3	1067
RS7640	2009	RT214	1104	RT4760	2016	RT-6922	565	RU1A	1104	RVDDS-410	1104	S0504F1	1067
RS7641	2009	RT-215	1104	RT4761	2009	RT6922	565	RU-1AV	1104	RVDEQA0106S	561	S0515G	1067
RS7642	2009	RT215	1104	RT-4764	1114	RT6989	2009	RU-1V	1104	RVDGP05A	1104	S0515H	1067
RS7643	2009	RT-218	1122	RT4764	1104	RT6991	2016	RU1Z	1104	RVDKB162C5	1104	S0702	562
RS7665	2023	RT218	1122	RT4767	1104	RT7320	2016	RU-2	1104	RVDKB265J2	1122	S0704	1617
RS7678	2030	RT-220	1101	RT4880	1123	RT7321	2016	RU2	1104	RVDMZ206	561	S1	1104
RS7814	2009	RT-222	1101	RT5061	2016	RT7322	2009	RU2AM	1104	RVDMZ209	562	S1-1	1104
RS7916	2035	RT-223	1101	RT5070	1104	RT7323	2016	RU2AN	1104	RVDO.8C2211A	1144	S1-RECT-35	1122
RS8101	2030	RT-235	565	RT5151	2030	RT7324	2016	RU2B	1104	RVDR5R6EB	561	S1-RECT-102	1104
RS8103	2030	RT235	565	RT5152	2030	RT7325	2009	RU-2M	1104	RVDR154B	1171	S1A	1104
RS8105	2030	RT-237	561	RT5200	2016	RT7326	2009	RU2M	1104	RVDRD5A1E	565	S1A06	1104
RS8107	2030	RT-240	562	RT5201	2016	RT7327	2009	RU-2V	1104	RVDRD5R1EB	565	S1A060	1104
RS8109	2030	RT-243	563	RT5202	2009	RT7330	1123	RU2Z	1104	RVDRD5R1EBB1	565	S1A6F	1104
RS8111	2030	RT-245	564	RT5203	2030	RT7402	1171	RU3AN	1104	RVDS5277B	1104	S1A60	1104

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S1R13B	563
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S3VC10R	1114 N1
S3VC20	1114 N2
S3VC20R	1114 N1
S3VC40	1114 N2
S3VC40R	1114 N1
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S4AR30	1104

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S106F1	1067
S106F2	1067
S106Q	1067
S106Y	1067
S106Y1	1067
S106Y2	1067
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S630T	2055
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S750C	1114
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S801	2017
S-810	1104
S855	1101
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S1003RS2	1067
S1003RS3	1067
S1004F1	1067
S1006RS2	1067
S1006RS3	1067
S1009	2016
S1010	1143
S1016	1617
S-1019	2016

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S1030	1144
S1037	2016
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S1044	2016
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S1318	2016
S1331	1617
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S1874	2030
S1878	2009
S1889	2023
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S1891A	1617
S1891B	1617
S1897	2016
S1905	2041
S1905A	2041
S1907	2041
S1955	1617
S1993	1617
S2000KS2	1067
S2002	2016
S2002-1	2041

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S2003MS2	1067	S2984	1617	S9631	2009	SA53	2023	SA482B	2023	SA509T	2023	SA542G	2023
S2003MS3	1067	S2985	1617	S10149	1104	SA54	2023	SA482C	2023	SA509X	2023	SA542L	2023
S2003RS2	1067	S2988	2023	S15649	1617	SA54A	2023	SA482D	2023	SA509Y	2023	SA542M	2023
S2003RS3	1067	S2989	1617	S15650	2016	SA55	2023	SA482E	2023	SA511A	2023	SA542R	2023
S2004F1	1067	S2992	2030	S15657	2016	SA56	2023	SA482F	2023	SA511B	2023	SA542T	2023
S2034	1617	S2996	1617	S15658	2016	SA70	2023	SA482G	2023	SA511C	2023	SA542X	2023
S2038	2016	S2997	1617	S15659	2016	SA78HV05CU	1770	SA482L	2023	SA511D	2023	SA542Y	2023
S2041	2027	S2998	1617	S15660	2030	SA78HV12CU	1771	SA482M	2023	SA511E	2023	SA544A	2023
S2042	2020	S2999	1617	S17900	2030	SA95A	2023	SA482R	2023	SA511F	2023	SA544B	2023
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S2060A	1067	S3004-1715	561	S18200	2030	SA95D	2023	SA482Y	2023	SA511M	2023	SA544E	2023
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S2061A	1067	S3020	2016	S21639	562	SA95L	2023	SA493D	2023	SA511Y	2023	SA544M	2023
S2061B	1067	S3030G	1123	S21648	2016	SA95M	2023	SA493E	2023	SA513A	2023	SA544R	2023
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S2061D	1020	S3060(HEP)	2020	S23130	2023	SA95T	2023	SA493G	2023	SA513C	2023	SA544X	2023
S2062A	1067	S3061(HEP)	2020	S23579	2009	SA95X	2023	SA493L	2023	SA513D	2023	SA544Y	2023
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S2062D	1020	S3603G	1123	S24592	2016	SA283	1122	SA493T	2023	SA513G	2023	SA545C	2023
S2062F	1067	S3639	2023	S24596	1617	SA310	2023	SA493X	2023	SA513L	2023	SA545D	2023
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S2085	1123	S3771	2041	S24614	2030	SA312	2023	SA494A	2023	SA513R	2023	SA545F	2023
S2091	2023	S3838GA	1123	S24616	2030	SA313	2023	SA494B	2023	SA513T	2023	SA545G	2023
S2118	2030	S3961G	1123	S25261	2016	SA313A	2023	SA494C	2023	SA513X	2023	SA545L	2023
S2121	1617	S4000KS2	1020	S25805	2016	SA314	2023	SA494D	2023	SA513Y	2023	SA545M	2023
S2122	1617	S4001	1104	S25941	2016	SA315	2023	SA494E	2023	SA522A	2023	SA545R	2023
S2123	1617	S4002	2016	S26822	2009	SA316	2023	SA494F	2023	SA522B	2023	SA545T	2023
S2124	1617	S4003	1104	S27233	2030	SA410	2023	SA494G	2023	SA522C	2023	SA545X	2023
S2128	2023	S4003M	1020	S27604	2016	SA411	2023	SA494L	2023	SA522D	2023	SA545Y	2023
S2129	2023	S4003MS2	1020	S27893	2058	SA412	2023	SA494M	2023	SA522E	2023	SA551A	2023
S2131	2016	S4003MS3	1020	S29956	2016	SA413	2023	SA494R	2023	SA522F	2023	SA551B	2023
S2132	2016	S4003RS2	1020	S31551	2023	SA414	2023	SA494T	2023	SA522G	2023	SA551C	2023
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S2134	2016	S4004F1	1020	S32417	2016	SA416	2023	SA494Y	2023	SA522M	2023	SA551E	2023
S2159	2016	S4249	2023	S32669	2016	SA429A	2023	SA495A	2023	SA522R	2023	SA551F	2023
S2171	1617	S5014(HEP)	2030	S33529	2027	SA429B	2023	SA495B	2023	SA522T	2023	SA551G	2023
S2172	1617	S5020	2016	S33530	2020	SA429C	2023	SA495C	2023	SA522X	2023	SA551L	2023
S2209	2030	S5021	2016	S33755	2009	SA429D	2023	SA495D	2023	SA522Y	2023	SA551M	2023
S2224	2016	S5089-A	1104	S33990	2016	SA429E	2023	SA495E	2023	SA525A	2023	SA551R	2023
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S2241	2041	S5230	565	S35232	2016	SA429G	2023	SA495G	2023	SA525C	2023	SA551X	2023
S2369	2030	S5230A	565	S35233	2016	SA429L	2023	SA495L	2023	SA525D	2023	SA551Y	2023
S2371	2030	S5230B	565	S36951	2009	SA429M	2023	SA495M	2023	SA525E	2023	SA561A	2023
S2392	2041	S-5277B	1104	S37162	2020	SA429R	2023	SA495R	2023	SA525F	2023	SA561B	2023
S2397	1617	S5277B	1104	S37165	2027	SA429T	2023	SA495T	2023	SA525G	2023	SA561C	2023
S2400	2030	S5277D	1102	S37166	2020	SA429X	2023	SA495X	2023	SA525L	2023	SA561D	2023
S2400A	2030	S5277G	1103	S37182	2009	SA429Y	2023	SA495Y	2023	SA525M	2023	SA561E	2023
S2400B	2030	S5277J	1104	S37214	2009	SA465A	2023	SA499A	2023	SA525R	2023	SA561F	2023
S2401	2030	S5277L	1114	S37423	2009	SA465B	2023	SA499B	2023	SA525T	2023	SA561G	2023
S2401A	2030	S5277N	1114	S38763	2009	SA465C	2023	SA499C	2023	SA525X	2023	SA561L	2023
S2401B	2030	S5295	1122	S38787	2009	SA465D	2023	SA499D	2023	SA525Y	2023	SA561M	2023
S2401C	2030	S5295B	1104	S38789	1617	SA465E	2023	SA499E	2023	SA530A	2023	SA561R	2023
S2402	2030	S5295D	1104	S38854	2009	SA465F	2023	SA499F	2023	SA530B	2023	SA561T	2023
S2402A	2030	S5295G	1104	S39094	2023	SA465G	2023	SA499G	2023	SA530C	2023	SA561X	2023
S2402B	2030	S5295GTPA2	1104	S39261	2027	SA465L	2023	SA499L	2023	SA530D	2023	SA561Y	2023
S2402C	2030	S5295I	1104	S39262	2020	SA465M	2023	SA499M	2023	SA530E	2023	SA562A	2023
S2403B	2041	S5295J	1104	S40204	2016	SA465R	2023	SA499R	2023	SA530F	2023	SA562B	2023
S2403C	2041	S5295JTPA2	1104	S95125	2016	SA465T	2023	SA499T	2023	SA530G	2023	SA562C	2023
S2427	2030	S5327E	2016	S95125A	2016	SA465X	2023	SA499X	2023	SA530L	2023	SA562D	2023
S2438	2058	S5328E	2016	S95126	2016	SA465Y	2023	SA499Y	2023	SA530M	2023	SA562E	2023
S2471	2041	S5500-D	1104	S95126A	2016	SA467A	2023	SA500A	2023	SA530R	2023	SA562F	2023
S2487	2030	S5500B	1104	S95202	1617	SA467B	2023	SA500B	2023	SA530T	2023	SA562G	2023
S2525	2023	S5500D	1104	S326690	2016	SA467C	2023	SA500C	2023	SA530X	2023	SA562L	2023
S2526	2030	S5500DTP	1104	S1977634	2041	SA467D	2023	SA500D	2023	SA530Y	2023	SA562M	2023
S2581	1617	S5500G	1103	SA1M1	1143	SA467E	2023	SA500E	2023	SA539A	2023	SA562R	2023
S2582	1617	S5566B	1104	SA-2	1114	SA467F	2023	SA500F	2023	SA539B	2023	SA562T	2023
S2590	1617	S5566G	1103	SA2	1104	SA467L	2023	SA500G	2023	SA539C	2023	SA562X	2023
S2593	1617	S5566J	1104	SA-2A	1114	SA467M	2023	SA500L	2023	SA539D	2023	SA562Y	2023
S-2617	2016	S5566N	1114	SA-2B	1114	SA467R	2023	SA500M	2023	SA539E	2023	SA564A	2023
S2617	2016	S5670E	2016	SA2B	1104	SA480A	2023	SA500R	2023	SA539F	2023	SA564B	2023
S2617(UHF)	2016	S6004F1	1020	SA-2C	1114	SA480B	2023	SA500T	2023	SA539G	2023	SA564C	2023
S2635	1617	S6005	1104	SA2H	1114	SA480C	2023	SA500X	2023	SA539L	2023	SA564D	2023
S2636	1617	S6142	1020	SA2M1	1143	SA480D	2023	SA500Y	2023	SA539M	2023	SA564E	2023
S2645	2023	S6142C	1020	SA-2Z	1114	SA480E	2023	SA509A	2023	SA539R	2023	SA564F	2023
S2648	2030	S6142G	1020	SA2Z	1114	SA480F	2023	SA509B	2023	SA539T	2023	SA564G	2023
S2716	2058	S6340G	1020	SA3B	1104	SA480G	2023	SA509C	2023	SA539X	2023	SA564L	2023
S2718	2058	S6344G	1020	SA3M1	1144	SA480L	2023	SA509D	2023	SA539Y	2023	SA564M	2023
S2719	2016	S6801	1617	SA50	2023	SA480M	2023	SA509E	2023	SA542A	2023	SA564R	2023
S2741	2041	S6804	2030	SA51	2023	SA480R	2023	SA509F	2023	SA542B	2023	SA564T	2023
S2775	1104	S7004	2041	SA51A	2023	SA480T	2023	SA509G	2023	SA542C	2023	SA564X	2023
S2794	2030	S7006(HEP)	2027	SA52	2023	SA480X	2023	SA509L	2023	SA542D	2023	SA564Y	2023
S2935	1617	S7502	1020	SA52A	2023	SA480Y	2023	SA509M	2023	SA542E	2023	SA565A	2023
S2944	1617	S7503	1020	SA52B	2023	SA482A	2023	SA509R	2023	SA542F	2023	SA565B	2023

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SA565C	2023	SA609X	2023	SA658T	2043	SA680L	2043	SA756C	2043	SA909C	2023	SC[illegible]A	1114
SA565D	2023	SA609Y	2023	SA658X	2043	SA680M	2043	SA756D	2043	SA909D	2023	SC10	1114
SA565E	2023	SA628A	2023	SA658Y	2043	SA680R	2043	SA756E	2043	SA909E	2023	SC10A	1114
SA565F	2023	SA628B	2023	SA659A	2023	SA680T	2043	SA756F	2043	SA909F	2023	SC12(DIODE)	1122
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SA565L	2023	SA628D	2023	SA659C	2023	SA680Y	2043	SA756L	2043	SA909L	2023	SC[illegible]6	1104
SA565M	2023	SA628E	2023	SA659D	2023	SA685A	2023	SA756M	2043	SA909M	2023	SC29	1122
SA565R	2023	SA628F	2023	SA659E	2023	SA685B	2023	SA756R	2043	SA909R	2023	SC54	1123
SA565T	2023	SA628G	2023	SA659F	2023	SA685C	2023	SA756T	2043	SA909T	2023	SC65	1617
SA565X	2023	SA628L	2023	SA659G	2023	SA685D	2023	SA756X	2043	SA909X	2023	SC91	562
SA565Y	2023	SA628M	2023	SA659L	2023	SA685E	2023	SA756Y	2043	SA909Y	2023	SC107	2009
SA567A	2023	SA628R	2023	SA659M	2023	SA685F	2023	SA773A	2023	SA7805CU	1770	SC107A	2009
SA567B	2023	SA628T	2023	SA659R	2023	SA685G	2023	SA773B	2023	SA7812CU	1771	SC107B	2009
SA567C	2023	SA628X	2023	SA659T	2023	SA685L	2023	SA773C	2023	SAB1044	2016	SC108	2009
SA567D	2023	SA628Y	2023	SA659X	2023	SA685M	2023	SA773D	2023	SAB3469	2016	SC108A	2009
SA567E	2023	SA629A	2023	SA659Y	2023	SA685R	2023	SA773E	2023	SAC-1843	2016	SC108B	2009
SA567F	2023	SA629B	2023	SA661A	2023	SA685T	2023	SA773F	2023	SAW-1S1941	1104	SC108C	2009
SA567G	2023	SA629C	2023	SA661B	2023	SA685X	2023	SA773G	2023	SAW-1S1944	1114	SC109	2009
SA567L	2023	SA629D	2023	SA661C	2023	SA685Y	2023	SA773L	2023	SAW-2SC372GR	2009	SC109A	2009
SA567M	2023	SA629E	2023	SA661D	2023	SA697A	2023	SA773M	2023	SAW-2SC372Y	2009	SC109B	2009
SA567R	2023	SA629F	2023	SA661E	2023	SA697B	2023	SA773R	2023	SAW-2SC945R	2009	SC110	1104
SA567T	2023	SA629G	2023	SA661F	2023	SA697C	2023	SA773T	2023	SB-01	1171	SC116D	1000
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SA569D	2023	SA639B	2023	SA661X	2023	SA697M	2023	SA778D	2023	SB1-01-04	1104	SC141B3	1000
SA569E	2023	SA639C	2023	SA661Y	2023	SA697R	2023	SA778E	2023	SB-1AHF	1103	SC141B4	1000
SA569F	2023	SA639D	2023	SA663A	2043	SA697T	2023	SA778F	2023	SB-1Z	1104	SC141B5	1000
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SA569L	2023	SA639F	2023	SA663C	2043	SA697Y	2023	SA778L	2023	SB-2(CENTERING-58		SC142B	1000
SA569M	2023	SA639G	2023	SA663D	2043	SA707A	2023	SA778M	2023		1101	SC142D	1000
SA569R	2023	SA639L	2023	SA663E	2043	SA707B	2023	SA778R	2023	SB2CH	1114	SC14[illegible]D	1000
SA569T	2023	SA639M	2023	SA663F	2043	SA707C	2023	SA778T	2023	SB-3	1104	SC146B	1000
SA569X	2023	SA639R	2023	SA663G	2043	SA707D	2023	SA778Y	2023	SB-3-02	1104	SC146B1	1000
SA569Y	2023	SA639T	2023	SA663L	2043	SA707E	2023	SA821	561	SB-3F	1114	SC146B2	1000
SA570A	2023	SA641A	2023	SA663M	2043	SA707F	2023	SA821A	561	SB-3F01	1104	SC146B3	1000
SA570B	2023	SA641B	2023	SA663R	2043	SA707G	2023	SA823	561	SB-3N	1104	SC146B4	1000
SA570C	2023	SA641C	2023	SA663T	2043	SA707L	2023	SA823A	561	SB120	1101	SC146B5	1000
SA570D	2023	SA641D	2023	SA663X	2043	SA707M	2023	SA825	561	SB130	1101	SC146B6	1000
SA570E	2023	SA641E	2023	SA663Y	2043	SA707R	2023	SA825A	561	SB140	1101	SC147	2009
SA570F	2023	SA641F	2023	SA666A	2023	SA707T	2023	SA827	561	SB150	1101	SC147A	2016
SA570G	2023	SA641G	2023	SA666B	2023	SA707X	2023	SA827A	561	SB160	1104	SC147B	2016
SA570L	2023	SA641L	2023	SA666C	2023	SA707Y	2023	SA829	561	SB170	1104	SC148	2016
SA570M	2023	SA641M	2023	SA666D	2023	SA720A	2023	SA829A	561	SB180	1104	SC148A	2016
SA570R	2023	SA641R	2023	SA666E	2023	SA720B	2023	SA836A	2023	SB302	1104	SC148B	2016
SA570T	2023	SA641T	2023	SA666F	2023	SA720C	2023	SA836B	2023	SB-309A	1104	SC148C	2016
SA570X	2023	SA641X	2023	SA666G	2023	SA720D	2023	SA836C	2023	SB309A	1171	SC149	2016
SA570Y	2023	SA641Y	2023	SA666L	2023	SA720E	2023	SA836D	2023	SB-309C	1104	SC149B	2016
SA592A	2023	SA643A	1114	SA666M	2023	SA720F	2023	SA836E	2023	SB309C	1171	SC149C	2009
SA592B	2023	SA643B	1114	SA666R	2023	SA720G	2023	SA836F	2023	SB315	1104	SC157V1	2023
SA592C	2023	SA643C	1114	SA666T	2023	SA720L	2023	SA836G	2023	SB320	1114	SC158B	2023
SA592D	2023	SA643D	1114	SA666X	2023	SA720M	2023	SA836L	2023	SB330	1114	SC158V1	2023
SA592E	2023	SA643E	1114	SA666Y	2023	SA720R	2023	SA836M	2023	SB332	1104	SC159B	2023
SA592F	2023	SA643F	1114	SA672A	2023	SA720T	2023	SA836R	2023	SB333	1104	SC174	2009
SA592G	2023	SA643G	1114	SA672B	2023	SA720X	2023	SA836T	2023	SB340	1114	SC174A	2009
SA592L	2023	SA643L	1114	SA672C	2023	SA720Y	2023	SA836X	2023	SB350	1114	SC174B	2009
SA592M	2023	SA643M	1114	SA672D	2023	SA721A	2023	SA836Y	2023	SB360	1114	SC257V1	2023
SA592R	2023	SA643R	1114	SA672E	2023	SA721B	2023	SA841A	2023	SB370	1114	SC258B	2023
SA592T	2023	SA643T	1114	SA672F	2023	SA721C	2023	SA841B	2023	SB380	1114	SC258V1	2023
SA592X	2023	SA643X	1114	SA672G	2023	SA721D	2023	SA841C	2023	SB393	1104	SC259B	2023
SA592Y	2023	SA643Y	1114	SA672L	2023	SA721E	2023	SA841D	2023	SB821	561	SC305	1104
SA608A	2023	SA649	2043	SA672M	2023	SA721F	2023	SA841E	2023	SB821A	561	SC350	1617
SA608B	2023	SA657A	2043	SA672R	2023	SA721G	2023	SA841F	2023	SB823	561	SC785	1617
SA608C	2023	SA657B	2043	SA672T	2023	SA721L	2023	SA841G	2023	SB823A	561	SC786	2016
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SA608F	2023	SA657E	2043	SA673A	2043	SA721T	2023	SA841R	2023	SB827	561	SC823	561
SA608G	2023	SA657F	2043	SA673B	2043	SA721X	2023	SA841T	2023	SB827A	561	SC823A	561
SA608L	2023	SA657G	2043	SA673C	2043	SA721Y	2023	SA841X	2023	SB829	561	SC825	561
SA608M	2023	SA657L	2043	SA673D	2043	SA723CN	1740	SA841Y	2023	SB829A	561	SC825A	561
SA608R	2023	SA657M	2043	SA673E	2043	SA741A	2023	SA842A	2023	SB1000	1104	SC827	561
SA608T	2023	SA657R	2043	SA673F	2043	SA741B	2023	SA842B	2023	SBEB05	1171	SC827A	561
SA608X	2023	SA657T	2043	SA673G	2043	SA741C	2023	SA842C	2023	SBR05	1171	SC829	561
SA608Y	2023	SA657X	2043	SA673L	2043	SA741D	2023	SA842D	2023	SBR-260	1104	SC829A	561
SA609A	2023	SA657Y	2043	SA673R	2043	SA741E	2023	SA842E	2023	SC05	1104	SC832	1617
SA609B	2023	SA658A	2043	SA673T	2043	SA741F	2023	SA842F	2023	SC05E	1104	SC842	1617
SA609C	2023	SA658B	2043	SA673X	2043	SA741G	2023	SA842G	2023	SC1	1104	SC1001	1617
SA609D	2023	SA658C	2043	SA673Y	2043	SA741L	2023	SA842L	2023	SC2	1104	SC1010	1617
SA609E	2023	SA658D	2043	SA680A	2043	SA741M	2023	SA842M	2023	SC2C	1104	SC1168G	1617
SA609F	2023	SA658E	2043	SA680B	2043	SA741R	2023	SA842R	2023	SC-4	1104	SC1168H	1617
SA609G	2023	SA658F	2043	SA680C	2043	SA741T	2023	SA842T	2023	SC4	1104	SC1127F	2016
SA609L	2023	SA658G	2043	SA680D	2043	SA741X	2023	SA842X	2023	SC-6	1123	SC1127G	2016
SA609M	2023	SA658L	2043	SA680E	2043	SA741Y	2023	SA842Y	2023	SC-7	1020	SC1129E	2030
SA609R	2023	SA658M	2043	SA680F	2043	SA756A	2043	SA909A	2023	SC-7(PHILCO)	1020	SC1129G	1617
SA609T	2023	SA658R	2043	SA680G	2043	SA756B	2043	SA909B	2023	SC8	1114	SC4001BH	2401

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SC4001UBC	2401	SCL4017AD	2417	SD-7	1122	SD96S	1104	SDR25	1104	SDT9009	2020	SE-4020	2030
SC4010	1617	SCL4017AE	2417	SD7	1122	SD98	1114	SDR3001	1114	SDT9201	2041	SE4020	2016
SC4044	1617	SCL4017AF	2417	SD-7(PHILCO)	1122	SD98A	1114	SDR3002	1114	SDT9205	2041	SE4020/6-04	2016
SC4116	1104	SCL4017AH	2417	SD-8	562	SD98S	1114	SDS113	1104	SDT9206	2041	SE4021	2016
SC4131	2030	SCL4017B	2417	SD8	1114	SD100	1122	SDS240	2016	SDT9210	2041	SE4022	2016
SC4131-1	2030	SCL4017BC	2417	SD-8(PHILCO)	562	SD-101	1104	SDT425	2055	SDT9261	2041	SE4172	1617
SC4135	2030	SCL4017BD	2417	SD10	1104	SD101	1122	SDT445	2027	SDT9301	2041	SE-5001	2016
SC4167	2030	SCL4017BE	2417	SD11F	1123	SD102	1122	SDT1006	2055	SDT9302	2041	SE5001	2016
SC4244	2030	SCL4017BF	2417	SD-12	1123	SD103	1122	SDT1007	2055	SDT9303	2041	SE5002	2016
SC4303	2020	SCL4017BH	2417	SD12	1123	SD104	1104	SDT1016	2055	SDT9304	2041	SE5003	2016
SC4303-1	2020	SCL4049	2449	SD12B	1123	SD105	1104	SDT1017	2055	SDT9306	2041	SE5004	2016
SC4303-2	2020	SCL4449UBE	2449	SD12E	1123	SD-109	2009	SDT3326	2017	SDT9307	2041	SE-5006	1617
SC4308	2020	SCP5E	1104	SD12M	1123	SD109	2009	SDT3509	2027	SDT9308	2041	SE5006	2016
SCA05	1104	SCR15	1067	SD-13	1104	SD-110	1122	SDT3510	2027	SDT9309	2041	SE5010	2016
SCA1	1104	SCR104(ELCOM)	1067	SD13	1104	SD-150	1123	SDT3513	2027	SD-W005M	1173	SE5015	2016
SCA2	1104	SCR108	1067	SD-14	1123	SD160	1122	SDT3514	2027	SD-Y	1104	SE5020	2016
SCA3	1104	SCR108(ELCOM)	1067	SD14	1123	SD165	1122	SDT3701	2027	SE0001	2009	SE5021	2016
SCA4	1104	SCR200	1067	SD-15	562	SD-201	1104	SDT3702	2027	SE002(1)	2016	SE5022	2016
SCA5	1104	SCR218	1067	SD15	1123	SD201	1104	SDT3703	2027	SE-05	1104	SE-5023	2016
SCA6	1104	SCR218(ELCOM)	1067	SD-16	1123	SD202	1104	SDT3704	2027	SE05	1104	SE5023	2016
SCA8	1114	SCR404(ELCOM)	1020	SD16	1123	SD345	2020	SDT3706	2027	SE-05-01	1104	SE-5024	2016
SCA10	1114	SCT1	1114	SD-16A	1104	SD445	2027	SDT3707	2027	SE-05-02	1104	SE5024	2016
SCA1103	1104	SCT2	1114	SD-16D	1104	SD461	1123	SDT3708	2027	SE-05-A	1104	SE-5025	2016
SCA3022	2016	SCT3	1114	SD-18	1104	SD-470	1104	SDT3709	2027	SE-05-B	1104	SE5025	2058
SCA3235	2016	SCT4	1114	SD18	1104	SD470	1104	SDT3710	2027	SE-05-C	1114	SE5029	2016
SCA3236	2016	SCT5	1114	SD-19	1171	SD500	1122	SDT3711	2027	SE-05-D	1114	SE5030	2016
SCA3237	2016	SD05	1104	SD20	1104	SD500C	1104	SDT3712	2027	SE-05A	1104	SE5030A	1617
SCA3238	2016	SD-07	1104	SD21	1123	SD501	1104	SDT3713	2027	SE05A	1144	SE5030B	1617
SCA3239	2016	SD07	1104	SD21A	1123	SD600	1122	SDT3715	2027	SE05B	1104	SE5031	2016
SCA3240	2016	SD020	1123	SD23	1104	SD600C	1104	SDT3716	2027	SE-05C	1114	SE5032	2016
SCA3243	2016	SD040	1104	SD-27	562	SD-630	1122	SDT3717	2027	SE05C	1114	SE5035	2016
SCA3244	2016	SD0345	2020	SD33	563	SD630	1122	SDT3720	2027	SE05D	1104	SE5036	2016
SCA3246	2016	SD1	1104	SD-34	1122	SD-632	562	SDT3721	2027	SE05S	1104	SE5040	2016
SCBR05F	1114	SD1-1	1104	SD34	1123	SD632	562	SDT3722	2027	SE05SS	1104	SE5050	2016
SCBR1F	1114	SD-1-211B	1104	SD-43	1122	SD632(10)	562	SDT3725	2027	SE-05X	1104	SE5051	2016
SCBR6	1114	SD1-211B	1104	SD43	1122	SD701-02	1122	SDT3726	2027	SE-0.5A	1144	SE5052	2016
SCBR6F	1114	SD-1-211C	1104	SD45	1104	SD800	1114	SDT3727	2027	SE-0.5B	1104	SE5055	2009
SCBR35F	1114	SD1-Z	1104	SD-46	1123	SD910	1114	SDT3729	2027	SE-1.5A	1114	SE5056	2016
SCE1	1104	SD-1A	1104	SD46	1123	SD910A	1114	SDT3730	2027	SE-2	1104	SE5151	1617
SCE2	1104	SD1A	1104	SD46(4)	1123	SD910S	1114	SDT3733	2027	SE-5	1104	SE-6001	1617
SCE3	1104	SD-1AHF	1101	SD-46-2	1123	SD950	1104	SDT4455	2017	SE5-0996	2035	SE6001	2030
SCE4	1104	SD-1AUF	1122	SD46-2	1123	SD974	1122	SDT4483	2017	SE6(DUAL)	1101	SE-6002	1617
SCE6	1104	SD-1B	1104	SD46R	1123	SD1023	2017	SDT4551	2017	SE30B26A	1104	SE6002	2016
SCE8	1114	SD1B	1114	SD50	1101	SD1101	1104	SDT4553	2017	SE46	1104	SE6006	2030
SCE10	1114	SD1C	1114	SD53	563	SD1102	1104	SDT4583	2017	SE500G	2016	SE6010	1617
SCL4001	2401	SD-1C-4F	1104	SD54	1123	SD1103	1104	SDT4611	2017	SE504	2016	SE6020	1617
SCL4001B	2401	SD-1C-UF	1104	SD-56	1123	SD1335	2020	SDT4612	2017	SE521	2016	SE6020A	2030
SCL4001BC	2401	SD-1CUF	1104	SD56	1123	SD1345	2020	SDT4614	2017	SE555V	1723	SE6021	2030
SCL4001BD	2401	SD1CUF	1104	SD-60	1123	SD1445	2027	SDT4615	2017	SE1001	2016	SE6021A	2030
SCL4001BE	2401	SD1DM-4	1104	SD60	1123	SD11441	2016	SDT5011	2017	SE1001-1	2058	SE6022	2030
SCL4001BF	2401	SD-1HF	1104	SD-60P	1104	SDA345	2020	SDT5102	2020	SE1001-2	2058	SE6023	2030
SCL4001UBD	2401	SD1HF	1104	SD60P	1101	SDA445	2027	SDT5112	2027	SE-1002	1617	SE7005	2030
SCL4001UBE	2401	SD-1L	1104	SD-61P	1104	SDB345	2020	SDT5511	2017	SE1002	2016	SE7015	2030
SCL4001UBF	2401	SD1L	1104	SD61P	1103	SDB445	2027	SDT5901	2017	SE1002-1	2016	SE8001	2030
SCL4001UBH	2401	SD 1LA	1104	SD-80	1104	SD-BA244A	1122	SDT5902	2017	SE1002-2	2016	SE8002	2030
SCL4009UBE	2449	SD1LA	1104	SD80	1104	SDD5	1101	SDT5906	2017	SE-1010	2016	SE8010	2030
SCL4011	2411	SD-1N34A	1123	SD-91	1104	SDD6	1101	SDT5907	2020	SE1010	2016	SE8012	2030
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SCL4011BC	2411	SD-1N60S	1123	SD-91A	1104	SDD421	1617	SDT6011	2020	SE1044	2016	SE8041	2030
SCL4011BD	2411	SD-1N4148	1122	SD91A	1143	SDD820	2016	SDT6013	2020	SE1331	1617	SE8042	2030
SCL4011BE	2411	SD1P60XXXXFXT	1123	SD-91S	1104	SDD821	1617	SDT6031	2020	SE1419	2016	SE8510	2030
SCL4011BF	2411	SD-1S1555	1122	SD91S	1143	SDD1220	2030	SDT6101	2017	SE1730	1114	SE8520	2030
SCL4011BH	2411	SD-1S2076	1122	SD-92	1104	SDD3000	1617	SDT6102	2017	SE2001	2016	SE8521	2030
SCL4011UBC	2411	SD-1U	1104	SD92	1143	SDDS442XXXXXX	1122	SDT6103	2020	SE2002	2016	SE9002	2041
SCL4011UBD	2411	SD-1UF	1104	SD-92A	1104	SDDSF10XCXXXXT	1102	SDT6104	2017	SE2020	2016	SE9080	2041
SCL4011UBE	2411	SD-1X	1104	SD92A	1143	SD-ERB24-04D	1104	SDT6105	2017	SE2397	2016	SELEN-42	1101
SCL4011UBF	2411	SD1X	1104	SD-92S	1104	SDGMA01XXXXXT	1122	SDT6106	2017	SE2401	1617	SELEN-44	1171
SCL4011UBH	2411	SD-1Y	1104	SD92S	1143	SDGZA062YXXXX	561	SDT7511	2020	SE2402	1617	SELEN-64	1114
SCL4013	2413	SD1Y	1104	SD-93	1104	SDH-2	1123	SDT7512	2020	SE-3001	2016	SELEN-70	1104
SCL4013AC	2413	SD-1Z	1104	SD93	1144	SDI345	2020	SDT7514	2020	SE3001	2016	SELEN-701	1104
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SCL4013AF	2413	SD1ZHF	1104	SD93S	1104	SDJ345	2020	SDT7602	2041	SE3003	2016	SEN-120	1102
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SCL4013BD	2413	SD2A	1104	SD-94A	1104	SDK445	2027	SDT7608	2041	SE3032	2041	SEN-150	1104
SCL4013BE	2413	SD2B	1104	SD94A	1144	SDL345	2020	SDT7609	2041	SE3033	2041	SEN-160	1104
SCL4013BF	2413	SD2C	1114	SD-94AB	1104	SDL445	2027	SDT7731	2041	SE3035	2041	SEN-180	1114
SCL4013BH	2413	SD-2N5062	1067	SD94AB	1104	SDM345	2020	SDT7732	2041	SE3036	2041	SEN-205	1114
SCL4013BP	2413	SD4	1104	SD94B	1104	SDM445	2027	SDT7733	2041	SE3100	2009	SEN-210	1114
SCL4017	2417	SD-5	1122	SD94S	1104	SDN201	2068	SDT9001	2017	SE3646	2016	SEN-220	1114
SCL4017ABC	2417	SD5	1104	SD-95	1104	SDN345	2020	SDT9002	2017	SE3819	2035	SEN-230	1114
SCL4017ABD	2417	SD5(DUAL)	1101	SD95	1104	SDN445	2027	SDT9003	2017	SE-4001	2009	SEN-240	1114
SCL4017ABE	2417	SD-5(PHILCO)	1122	SD-95A	1104	SDO345	2020	SDT9005	2017	SE4001	1617	SEN-250	1114
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SCL4017ABH	2417	SD6	1104	SD96	1104	SDR3A	1114	SDT9007	2017	SE-4010	1617	SEN-280	1114
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SKA9096	2016
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SP14	2041	SPS668	2023	SPS3735	2009	SPS4072	2023	SPS4494	2009	SR1FM-1	1104	SR40	1104
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SP101	1122	SPS-860	2016	SPS3912	2030	SPS4078	2023	SPS4920	2009	SR1FM-12	1114	SR101-1	1104
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SP3031	1103	SPS919	2016	SPS3930	2009	SPS4087	2023	SPS5569	2016	SR1K-1	1104	SR131-1	1104
SP3032	1114	SPS920	2058	SPS3931	2023	SPS4088	2009	SPS5809	2030	SR1K1	1104	SR-132-1	1104
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SP3041	2020	SPS952	2009	SPS3940	2009	SPS4095	2009	SPS6113	2009	SR-1K-2A	1114	SR136	1141
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SP3051	1114	SPS1045	1617	SPS3952	2016	SPS4145	2016	SPS6571	2009	SR1K-8	1104	SR150	1114
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T0810DH	1000	T106A2SC	1000	T327	2009	T1642B	1617	T2327B	1000	TA2T00952L	2023	TAG612-100	1067
T0810DJ	1000	T106A2SD	1000	T327-2	2009	T1706	2030	T2327C	1000	TA3	1114	TAG612-200	1067
T0812BH	1000	T106A2SG	1000	T328	2009	T1706A	2030	T2327D	1000	TA3T006080	2023	TAG612-400	1020
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T0812DH	1000	T106A2SS	1000	T-339	2030	T1706C	2030	T2446	1617	TA3T0608KF	2023	TALT007330	2023
T0812DJ	1000	T106B1	1067	T339	2009	T1746	1617	T2634	2016	TA5	1114	TAV	1114
T0813BJ	1000	T106B1SC	1000	T340	2023	T1746A	1617	T2801B	1000	TA-6	1617	TB-1	1171
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T0.8N2A00	1067	T106B1SS	1000	T386	1617	T1748A	1617	T3530	2016	TA50	1104	TB100	1143
T0.8N3A00	1020	T106B2SC	1000	T386(SEARS)	2016	T1748B	1617	T3536	2016	TA100	1104	TB200	1143
T0.8N4A00	1020	T106B2SD	1000	T-399	2009	T1748C	1617	T3539	2016	TA200	1104	TBB1458B	038
T1-1A6	1617	T106B2SG	1000	T399	2009	T1802	1617	T3565	2009	TA300	1104	TBC337	2016
T1G	1123	T106B2SH	1000	T400	1104	T1802A	1617	T-3568	2016	TA400	1104	TBC338	2016
T1J4G	1104	T106B2SS	1000	T416-16(SEARS)	2009	T1802B	1617	T3568	2016	TA500	1104	TBC414C	2009
T1N200	1020	T106C1	1020	T417	2009	T1804	1617	T3568(RCA)	2016	TA600	1104	TBC547	2016
T1N400	1020	T106C1SC	1000	T450	1104	T1805	1617	T3570	2023	TA721KP	1114	TBC548	2016
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T1P29X	2020	T106C1SG	1000	T457-16	2009	T1810B	1617	T3601(RCA)	2016	TA1000	1114	TBC550	2016
T1P31	2020	T106C1SH	1000	T457-16(SEARS)	2009	T1811	2030	T4590	1123	TA1062	1104	TBRC147B	2009
T1P31A	2020	T106C1SS	1000	T458-16	2009	T1811E	2030	T6000B	1000	TA1063	1104	TC02P12	1104
T1S14	2035	T106C2SC	1000	T459(SEARS)	2009	T1811G	2030	T6006B	1000	TA1064	1104	TC02P1.2	1104
T1S-18	2058	T106C2SD	1000	T460	2009	T1909	1617	T7400B1	1801	TA1222	1067	TC0914	2016
T1S18	2058	T106C2SG	1000	T460(SEARS)	2023	T2300A	1000	T7400D1	1801	TA1225	1020	TC0918	2016
T1S86	2016	T106C2SH	1000	T461-16	2009	T2300B	1000	T7400D2	1801	TA2401	2016	TC0.09M21/2	1161
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T1S93	2023	T106D1SC	1000	T462(SEARS)	2009	T2300F	1000	T7401D2	1801	TA2555	2016	TC0.2P11/2	1104
T1S94	2016	T106D1SD	1000	T472	2009	T2300PA	1000	T7404B1	1802	TA2577A	2041	TC0.2P11/12	1101
T1S95	2009	T106D1SG	1000	T472(SEARS)	2009	T2300PB	1000	T7408B1	1822	TA2888	1067	TC2T009450	2009
T1S97	2009	T106D1SH	1000	T475(SEARS)	2023	T2300PC	1000	T7408D1	1822	TA2889	1067	TC3T005360	2009
T1S98	2016	T106D1SS	1000	T482(SEARS)	2023	T2300PD	1000	T7408D2	1822	TA2892	1000	TC3T0536K0	2009
T1SDS1K	1104	T106D2SC	1000	T483(SEARS)	2009	T2300PF	1000	T7490B1	1808	TA2911	2020	TC3T0536KF	2009
T1X-M14	2016	T106D2SD	1000	T484(SEARS)	2009	T2301A	1000	T7490D1	1808	TA6200	2030	TC3T030000	2009
T1X-M15	2016	T106D2SG	1000	T485(SEARS)	2009	T2301B	1000	T7490D2	1808	TA7137	2020	TC5T0338A0	2009
T1X-M15	2016	T106D2SH	1000	T-486	2016	T2301D	1000	T9011A1C	2009	TA7156	2020	TC5T613154	2009
T1X-M16	2016	T106D2SS	1000	T486(SEARS)	2009	T2301F	1000	T9011A1G	2009	TA7199	2041	TC10LB2	1067
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T3G	1123	T106F2SH	1000	T700-709	1123	T2302F	1000	T9011J(GH)	2009	TA7262	2020	TC106B3	1067
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T11	1123	T107C1	1020	T-1000X	1114	T2302PD5	1000	T10144	1104	TA7504P	007	TC106D1	1020
T12	1123	T107D1	1020	T1000X	1114	T2303F	1000	T10175	1104	TA7554	2020	TC106D2	1020
T12G	1123	T107F1	1067	T1003-521	2016	T2304B	1000	T10185	1104	TA7555	2020	TC106D3	1020
T13	1123	T107Q1	1067	T1007(ZENITH)	2016	T2305B	1000	T10195	1171	TA7556	2027	TC106D4	1020
T13G	1123	T107Y1	1067	T1008-834	2009	T2305D	1000	T10453	1104	TA7557	2027	TC106F1	1067
T14	1123	T-113	2023	T1010BH	1000	T2306A	1000	T13015	2030	TA8991	2055	TC106F2	1067
T14G	1123	T143	1617	T1010BJ	1000	T2306B	1000	T14881	1104	TA75339	1712	TC106F3	1067
T16	1122	T151	1122	T1012BH	1000	T2306D	1000	T21237	1123	TA75339P	1712	TC106F4	1067
T16X19	1123	T152	1122	T1012BJ	1000	T2310A	1000	T21238	1123	TA75458P	038	TC106Q1	1067
T17	1123	T153	1122	T1013BH	1000	T2310B	1000	T21271	1123	TA75557P	038	TC106Q2	1067
T18	1123	T154	1122	T1013BJ	1000	T2310D	1000	T21312	1104	TA75558P	038	TC106Q3	1067
T19	1123	T155	1122	T1085	1104	T2312A	1000	T21313	1123	TA75559P	038	TC106Q4	1067
T19G	1123	T156	1102	T1106	2016	T2312B	1000	T21333	1104	TA75559P(FA-1)	038	TC106Y1	1067
T20	1123	T157	1617	T1202(GE)	2016	T2312D	1000	T21334	562	TA75559PFA-1	038	TC106Y2	1067
T20G	1123	T158	2009	T1208	2055	T2312F	1000	T21507	1104	TA78005AP	1770	TC106Y3	1067
T21	1123	T159	1104	T1340A3H	2030	T2313A	1000	T21600	1122	TA78005P	1770	TC106Y4	1067
T21G	1123	T170	2009	T1340A3I	1617	T2313B	1000	T21602	1104	TAA320	2035	TC136	1104
T22	1123	T171	2009	T1340A3J	1617	T2313D	1000	T21639	562	TAC047	1617	TC200	1143
T22G	1123	T185	2009	T1340A3K	1617	T2320A	1000	T21649	1104	TAG1-200	1067	TC2369A	2016
T23	1123	T200	1104	T1340A31	1617	T2320B	1000	T21679	1104	TAG1-400	1020	TC2483	2016
T23G	1123	T-203	2016	T1341A3K	2016	T2320C	1000	T30155-001	1104	TAG2.5-100	1067	TC2484	2016
T24G	1123	T237	1617	T1402	2016	T2320D	1000	T30155-1	1104	TAG2.5-200	1067	TC3114	2016
T26G	1123	T-246	2023	T1408	2058	T2320F	1000	T42692-001	1104	TAG2.5-300	1020	TC4001BP	2401
T27G	1123	T247	2030	T1410	2016	T2322A	1000	T42692-1R	1104	TAG2.5-400	1020	TC4001P	2401
T-50	1104	T-251	2023	T1413	1617	T2322B	1000	T59235A	1617	TAG200-100	1000	TC4001UBP	2401
T76	1617	T-255	2009	T1414	1617	T2322C	1000	T164213	2030	TAG200-200	1000	TC4009UBP	2449
T87A	1102	T255	2009	T1415	2009	T2322D	1000	T1003521	2016	TAG200-400	1000	TC4011	2411
T-100	1104	T256	2009	T1416	2009	T2322F	1000	T1004671	1617	TAG201-100	1000	TC4011B	2411
T106A1	1067	T276	2023	T1417	1617	T2323A	1000	T1008834	1617	TAG201-200	1000	TC4011BP	2411

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TC4011P	2411	TCG507	1101	TCG7408	1822	T-E1014	1123	TE3398	2016	TG2SA608C	2023	TG2SC2057-C	2058
TC4011UBP	2411	TCG519	1122	TCG7447	1805	TE-1014	1123	TE3414	1617	TG2SA608F	2023	TG2SC2057-D	2058
TC4013	2413	TCG524V13	568	TCG7490	1808	TE1014	1123	TE3415	1617	TG2SA608K	2023	TG2SC2057-E1	2058
TC4013B	2413	TCG552	1104	TCG75188	2520	T-E1024	1104	TE3416	2030	TG2SA608K(,2SA608K		TG2SC2057C	2058
TC4013BCP	2413	TCG778A	038	TCG75189	2521	TE1024	1104	TE3605	1617	(F))	2023	TG2SC2057D	2058
TC4013BP	2413	TCG823	1731	TCH98	2023	T-E1024C	1104	TE3605A	1617	TG2SA608NP	2023	TG2SC2274	2009
TC4013P	2413	TCG834	1712	TCH99	2023	TE1024C	1104	TE3606	2009	TG2SA608NP		TG2SC2274(,2SC2274(F))	
TC4017BP	2417	TCG923D	1740	TCH99B	2023	T-E1024D	1104	TE3606A	2009	(,2SA608NP(G))	2023		2009
TC4017P	2417	TCG941M	007	TCIT00501P	2009	TE1024D	1104	TE3607	1617	TG2SA608NPF	2023	TG2SC2274E	2009
TC4049BP	2449	TCG955M	1723	TCL0009450	2009	T-E1029	1101	TE3662	2016	TG2SA608NPF		TG2SC2274E(,2SC2274	
TC4049P	2449	TCG956	1778	TCLT009450	2009	TE-1029	1122	TE3663	2016	(,2SA608NP(G)	2023	(F))	2009
TC7400	1801	TCG960	1770	TCO2P112	1104	TE1029	1104	TE3704	1617	TG2SA608NPG	2023	TG2SC2274F	2009
TC300388A0	2009	TCG966	1771	TCO914	2009	T-E1031	1123	TE3705	1617	TG2SA608SP	2023	TG2SC2999	2016
TC30005360	2009	TCG968	1772	TCO.09M22/1	1171	TE-1031	1123	TE3707	2016	TG2SA608SP(,2SA608SP		TG2SD313	2020
TC30031560	2055	TCG978	1728	TCT009450	2009	TE1031	1123	TE3708	2016	(G))	2023	TG2SD313E	2020
TC311200600	1123	TCG987	1711	TD-1S-BL	1122	T-E1042	1171	TE3709	2016	TG2SA608SPF	2023	TG2SD313E(,2SD313(E))	
TC312307222	2009	TCG1155	705	TD100	2009	TE1042	1104	TE3710	2016	TG2SA608SPF			2020
TC3112006000	1123	TCG1232	703	TD102	2009	T-E1050	1104	TE3711	2016	(,2SA608SP(G)	2023	TG2SD313E(,2SD313(F))	
TC3112319300	1104	TCG3007	026	TD200	2009	TE-1050	1104	TE3843	2016	TG2SA659	2023		2020
TC3123036722	1617	TCG3012	033	TD201	2009	TE1050	1104	TE3844	2016	TG2SA953	2023	TG2SD325-1	2017
TC3123036900	1617	TCG3022	041	TD202	2009	T-E1064	1104	TE3845	2016	TG2SA953(,2SA953(L))		TG2SD613D	2020
TC3123037111	1617	TCG3026	025	TD250	2009	T-E1068	563	TE3854	2016		2023	TG2SD613D(,2SD613(E))	
TC3123037222	1617	TCG3047	134	TD400	2023	TE1068	563	TE3854A	2016	TG2SA984	2023		2020
TC3123037412	1617	TCG3056	075	TD401	2023	T-E1077	563	TE3855	2016	TG2SA984(,2SA984(F))		TG2SD613E	2020
TCG2V130	570	TCG3115	081	TD402	2023	TE1077	563	TE3855A	2016		2023	TG2SD613E(,2SD613E)	
TCG85	2009	TCG4001B	2401	TD500	2023	T-E1078	1104	TE3859	2016	TG2SA984E	2023		2020
TCG107	2016	TCG4011B	2411	TD501	2023	TE1078	1104	TE3860	2016	TG2SA984E(,2SA984(F))		TG2SD734	2009
TCG108	2016	TCG4013B	2413	TD502	2023	T-E1078A	1104	TE3900	2016		2023	TG2SD734(,2SD734(G))	
TCG108-1	2016	TCG4017B	2417	TD503	1067	T-E1080	1104	TE3900A	2016	TG2SA984K	2023		2009
TCG109	1123	TCG4049	2449	TD550	2023	TE1080	1104	TE3901	2016	TG2SA984K(,2SA984K		TG12	1104
TCG110	1123	TCG4049B	2449	TD1003	1067	T-E1088	1104	TE3903	1617	(F))	2023	TG21	1104
TCG110MP	1123	TCG5009A	565	TD1401	1801	TE1088	1104	TE3904	1617	TG2SA984KE	2023	TG22	1104
TCG114	1101	TCG5010A	565	TD1401P	1801	T-E1089	1104	TE3905	2023	TG2SA984KE(,2SA984K		TG31	1104
TCG116	1104	TCG5013A	561	TD2003	1067	TE1089	1104	TE3906	1617	(F))	2023	TG32	1104
TCG117A	1114	TCG5017A	562	TD2219	2009	T-E1090	1104	TE4123	1617	TG2SA1016	2023	TG41	1104
TCG120	1101	TCG5018A	562	TD2905	2023	TE1090	1114	TE4124	1617	TG2SA1016(,2SA1016		TG42	1104
TCG123	1617	TCG5021A	563	TD3003	1020	T-E1097	1104	TE4125	2023	(G))	2023	TG-48	1123
TCG123A	1617	TCG5024A	564	TD3400A	1801	TE1097	1104	TE4126	2023	TG2SB511-1	2027	TG51	1104
TCG123AP	2009	TCG5069A	565	TD3400AP	1801	T-E1098	1122	TE4256	2016	TG2SB698	2023	TG52	1104
TCG125	1114	TCG5070A	561	TD3400P	1801	TE1098	1123	TE4409	2009	TG2SB698(,2SB698(G))		TG61	1104
TCG128	2020	TCG5073A	562	TD3401A	1801	T-E1102	1104	TE4424	1617		2023	TG62	1104
TCG130	2041	TCG5304	1173	TD3401AP	1801	T-E1102A	1104	TE4951	1617	TG2SB698F	2023	T-G1138	1123
TCG132	2035	TCG5400	1067	TD3404A	1802	T-E1105	1123	TE4952	1617	TG2SB698F(,2SB698(G))		T-GS033	2030
TCG133	2035	TCG5401	1067	TD3404AP	1802	TE1105	1123	TE4953	1617		2023	T-GS055	2030
TCG135A	565	TCG5402	1067	TD3447A	1805	T-E1106	563	TE4954	1617	TG2SC536	2009	TGB0331	2009
TCG137A	561	TCG5403	1067	TD3447AP	1805	T-E1108	1101	TE5088	2016	TG2SC536(C)	2009	T-H1S557	1114
TCG139A	562	TCG5404	1067	TD3490A	1808	TE1108	1104	TE5089	2016	TG2SC536(E)	2009	TH1S557	1104
TCG141A	563	TCG5405	1020	TD3490AP	1808	T-E1116	1123	TE5249	2016	TG2SC536-D-A	2009	T-H2SC313	2016
TCG142A	563	TCG5408	1067	TD3490P	1808	T-E1118	1122	TE5309	2016	TG2SC536-E	2009	T-H2SC387	2016
TCG145A	564	TCG5409	1020	TD4003	1020	T-E1119	1122	TE5310	2016	TG2SC536-E-A	2009	TH2SC535	2016
TCG152	2020	TCG5411	1067	TD81515	1122	T-E1121	1122	TE5311	2016	TG2SC536-E-B	2009	T-H2SC536	2009
TCG153	2027	TCG5412	1067	TD81518	1122	T-E1122	1114	TE5365	2023	TG2SC536-F	2009	TH2SC536	2009
TCG156	1114	TCG5413	1067	TD960016-1M	1122	T-E1124	1104	TE5366	2023	TG2SC536-F-A	2009	T-H2SC693	2016
TCG159	2023	TCG5414	1067	TD3214739	562	T-E1127	1114	TE5368	1617	TG2SC536E	2009	TH2SC693	2009
TCG159MCP	2009&23	TCG5415	1020	TD3214742	563	T-E1133	1104	TE5369	1617	TG2SC536NP	2009	T-H2SC715	2009
TCG161	2016	TCG5452	1067	TD3214744	564	T-E1138	1104	TE5370	1617	TG2SC536NP(,2SC536NP		TH2SC715	2009
TCG164	2055	TCG5453	1067	TD3907572	562	T-E1140	563	TE5371	1617	(G))	2009	TH50	1104
TCG165	2055	TCG5454	1067	TD3907592	563	T-E1144	1104	TE5376	1617	TG2SC536NPF	2009	TH400	1104
TCG166	1171	TCG5455	1067	TD3909632	563	T-E1148	1104	TE5377	1617	TG2SC536NPF		TH600	1104
TCG168	1173	TCG5456	1020	TD3909652	564	T-E1155	1104	TE5378	2023	(,2SC536NP(G)	2009	TH800	1114
TCG177	1122	TCG5457	1020	TDA1412	1771	T-E1157	1104	TE5379	2023	TG2SC536SP	2009	TH801	1104
TCG178MP	1122	TCG5473	1020	TDA1415	1772	T-E1171	1104	TE5447	2023	TG2SC536SP(,2SC536SP		TH802	1104
TCG186	2017	TCG5511	1067	TDA1458D	038	T-E1176	1104	TE5448	2023	(G))	2009	TH803	1104
TCG196	2020	TCG5512	1020	TDA1520A	1305	T-E1177	1123	TE5449	1617	TG2SC536SPF	2009	TH804	1104
TCG199	2016	TCG5600	1000	TDA2002	703	TE1420	1617	TE5450	1617	TG2SC536SPF(,2SC536SP		TH805	1104
TCG219	2043	TCG5601	1000	TDA7000	1304	TE1990	2030	TE5451	1617	(G)	2009	TH806	1104
TCG229	2058	TCG5602	1000	TDB0555B	1723	TE2369	1617	TE13004	2023	TG2SC927(C)	2016	TH808	1114
TCG233	2009	TCG5603	1000	TDB0555DP	1723	TE2484	2016	TE13005	2023	TG2SC927-C-A	2016	TH810	1114
TCG234	2023	TCG5604	1000	TDB0556A	1728	TE2711	2016	TEG0129	2016	TG2SC927-D-A	2016	TH1000	1114
TCG238	2055	TCG5605	1000	TDB0723A	1740	TE2712	2016	TEH0147	2009	TG2SC927-E-A	2016	THD3600	1104
TCG241	2020	TCG5608	1000	TDB7805T	1770	TE2715	2016	TEH0149	2009	TG2SC1175	2009	TH-H2SC313	2016
TCG261	2068	TCG5627	1000	TDB7812T	1771	TE2716	2016	TF20	1104	TG2SC1175(C)	2009	T-HS6105	1104
TCG280	2041	TCG5633	1000	TDB7815T	1772	TE2921	2016	TF21	1104	TG2SC1175-	2009	T-HSG105	1104
TCG281	2043	TCG5640	1000	TE35	1067	TE2922	2016	TF22	1104	TG2SC1175-C	2009	THSG105	1104
TCG289	2009	TCG5641	1000	TE55	1067	TE2923	2016	TF23	1104	TG2SC1175-D	2009	THZ821	561
TCG289A	2009	TCG5642	1000	TE105	1067	TE2924	2016	TF44	1122	TG2SC1175-E	2009	THZ823	561
TCG290	2023	TCG5650	1000	TE205	1067	TE2925	2016	TF50S6344G	1020	TG2SC1293	2016	THZ825	561
TCG290A	2023	TCG5651	1000	TE305	1020	TE2926	2016	TF-78	1617	TG2SC1293(A)	2016	THZ827	561
TCG291	2020	TCG5652	1000	TE405	1020	TE3390	2016	TFR105	1114	TG2SC1293-	2009	THZ829	561
TCG312	2035	TCG5800	1141	TE500	1141	TE3391	2016	TFR110	1114	TG2SC1293-A-A	2016	TI031	1122
TCG319	2009	TCG5801	1143	TE-500-E	2035	TE3391A	2016	TFR-120	1104	TG2SC1293-B-A	2016	TI1A6	1617
TCG319P	2009	TCG5802	1143	TE697	1617	TE3392	2016	TFR120	1104	TG2SC1293-C-A	2016	TI24A	1617
TCG331	2020	TCG5803	1144	TE706	2016	TE3393	2016	TFR140	1114	TG2SC1293-D-A	2016	TI24B	1617
TCG340	2009	TCG5804	1144	TE1010	1104	TE3394	2016	TG2SA608	2023	TG2SC1293A	2016	TI25A	2016
TCG377	2020	TCG7400	1801	T-E1011	1104	TE3395	2016	TG2SA608(C)	2023	TG2SC1295(O)	2055	TI25B	2016
TCG451	2062	TCG7401	1801	TE-1011	1104	TE3396	2016	TG2SA608-D	2023	TG2SC1295-0	2055	TI-51	1122
TCG457	2062	TCG7404	1802	TE1011	1104	TE3397	2016	TG2SA608-E	2023	TG2SC1295-O	2055	TI51	1122

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TIS91-VIO	2023
TIS91-YEL	2023
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TIS93-BLU	2023
TIS93-G	2023
TIS93-GRN	2023
TIS93-GRY	2023
TIS93-V	2023
TIS93-VIO	2023
TIS93-YEL	2023
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TIXS13	2009
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TL107-4	1020
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TL4558P	038
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TL7401N	1801
TL7404N	1802
TL7447AN	1805
TL7490N	1808
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TLR-107	033
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TLR124	026
TLR-147	033
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TM178MP	1122
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TM199	2016
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TM234	2023
TM238	2055
TM241	2020
TM242	2055
TM261	2068
TM280	2041
TM281	2043
TM289	2009
TM290	2023
TM291	2020
TM312	2035
TM319	2009
TM331	2020
TM340	2009
TM377	2020
TM507	1101
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TM778A	038
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TM923D	1740
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TM955M	1723
TM960	1770
TM966	1771
TM968	1772
TM978	1728
TM987	1711
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TN2SA733(,2SA733(Q))	2023
TN2SA733-4	2023
TN2SA733-Q	2023
TN2SA733-Q-B	2023
TN-2SA733-Q-B	2023
TN2SA733-R	2023

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TN2SA733-F-A	2023	TNC61703	2023	TO1-101	1617	TQ7	2016	TR-1R33	2009	TR70	2058	TR-8004-4	2016
TN2SA733K	2023	TNJ61672(RECT)	1104	TO1-104	1617	TQ8	2016	TR-1R35	2016	TR-75	563	TR8004-4	2009
TN2SA733K(,2SA733(E))		TNJ1034	2016	TO1-105	1617	TQ9	2016	TR2A	1104	TR75	563	TR-8004-5	2016
	2023	TNJ1036	2009	TP20-0284	561	TQ53A	2023	TR-2R31	2016	TR-76(IR)	2020	TR-8007	2023
TN2SA733P	2023	TNJ60069(2SC74)	2016	TP34	1123	TQ54A	2023	TR-2R33	2016	TR76(IR)	2020	TR-8007(FISHER)	2023
TN2SA733P(,2SA733(Q))		TNJ60076	2009	TP34A	1123	TQ-59	2023	TR-2R35	2016	TR-77	1104	TR-8010	2016
	2023	TNJ60447	2016	TP101	1104	TQ-60	2023	TR2S1570LH	2016	TR-77(IR)	2027	TR8010	2009
TN2SA733Q	2023	TNJ60448	2016	TP107	2009	TQ-61	2023	TR2SA763	2023	TR77(IR)	2027	TR-8014	1617
TN2SA733R	2023	TNJ60449	2016	TP107A	2009	TQ61	2023	TR-2SC367	2009	TR-80	2016	TR8014	1617
TN2SA952L	2023	TNJ-60604	2009	TP107B	2009	TQ61A	2023	TR-2SC371	2016	TR80	2016	TR-8019	2027
TN2SA952L(,2SA952(M))		TNJ60604	2016	TP108	2009	TQ-62	2023	TR-2SC372	2016	TR-83	2016	TR8019	2027
	2023	TNJ-60605	2016	TP108A	2009	TQ62	2023	TR-2SC373	2009	TR83	2016	TR8020	2023
TN2SA953	2023	TNJ60605	2016	TP108B	2009	TQ62A	2023	TR2SC373	2009	TR-86	2009	TR-8021	2030
TN2SA953(,2SA953(L))		TNJ-60606	2009	TP108C	2009	TQ-63	2023	TR-2SC384	2016	TR86	2009	TR8021	1617
	2023	TNJ60606	2016	TP109	2009	TQ-64	2023	TR-2SC482	2030	TR-87	2030	TR-8023	2030
TN2SA953K	2023	TNJ-60607	2009	TP109A	2009	T-Q5049	2016	TR2SC535	2016	TR-93	2055	TR-8024	2030
TN2SA953K(,2SA953(L))		TNJ60607	2016	TP109B	2009	TQ5049	2016	TR-2SC735	2009	TR93	2055	TR-8025	2009
	2023	TNJ61217	2016	TP109C	2009	TQ-5052	2009	TR2SC1342	2016	TR-95	562	TR8025	2009
TN2SA1175	2023	TNJ61218	2016	TP201	1104	TQ5052	2009	TR2SC1570LH	2009	TR95	2016	TR-8026	2023
TN2SA1175(,2SA1175		TNJ61219	2009	TP251A	2023	T-Q5053	2009	TR2SD330E	2020	TR-95(B)	562	TR-8027	2035
(F))	2023	TNJ61220	1617	TP252A	2023	TQ-5053	2009	TR2SK55	2035	TR-95(IR)	2016	TR8027	2035
TN2SA1175(,2SA1175		TNJ61671(2SC688)	2016	TP253A	2023	TQ5053	2009	TR-3R31	2016	TR-95(XSTR)	2016	TR-8028	2016
(M))	2023	TNJ61672(2SK25)	2035	TP302	1104	T-Q5053C	2009	TR-3R33	2016	TR-95B	562	TR8028	1617
TN2SC945	2009	TNJ61673	2035	TP402	1104	TQ-5054	2009	TR-3R35	2016	TR125	564	TR-8029	2016
TN2SC945(,2SC945(K))		TNJ61673(2SK24)	2035	TP3566	2009	TQ5054	2009	TR-3R38	1617	TR125B	564	TR8029	1617
	2009	TNJ61679	2016	TP3638	2023	T-Q5055	2016	TR-4R31	2030	TR-162(OLSON)	1617	TR-8030	2016
TN2SC945(,2SC945(P))		TNJ61730	2016	TP3644	2023	TQ-5055	2030	TR-4R33	1617	TR-163(OLSON)	2016	TR8030	1617
	2009	TNJ61731	2016	TP3645	2023	TQ5055	2030	TR-4R35	2016	TR-164(OLSON)	2030	TR-8031	2016
TN2SC945-Q	2009	TNJ70450	2017	TP3702	2023	TQ-5060	2009	TR-4R38	2023	TR-167(OLSON)	2023	TR8031	1617
TN2SC945-R	2009	TNJ70478	2016	TP3703	2023	TQ5060	2009	TR-5R31	2030	TR-171	2016	TR-8032	2016
TN2SC945K	2009	TNJ70478-1	2016	TP3704	2016	T-Q5063	2030	TR-5R33	1617	TR209T2	562	TR-8034	2016
TN2SC945K(,2SC945(P))		TNJ70479	2016	TP3705	2016	T-Q5071	2016	TR-5R35	1617	TR271TR26	2041	TR8034	2009
	2009	TNJ70479-1	2009	TP3706	2016	T-Q5073	1617	TR-5R38	1617	TR302	1617	TR-8035	2009
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TN2SC2002	2009	TNJ70482	2030	TP3708	2009	T-Q5078	2009	TR-6R33	1617	TR-1000-2	2023	TR-8036	2030
TN2SC2002(,2SC2002(L))		TNJ70484	2016	TP3709	2009	T-Q5079	2016	TR-6R35	2023	TR-1000-3	2030	TR8036	2030
	2009	TNJ70537	1617	TP3710	2009	T-Q5081	2030	TR6S	561	TR-1000-7	2041	TR-8037	2023
TN2SC2002(,2SC2002		TNJ70539	1617	TP3711	2009	TQ5081	2030	TR-7R31	2030	TR1001	2030	TR-8038	2016
(M))	2009	TNJ70637	2009	TP4001	2401	T-Q5083	2055	TR-7R35	1617	TR1003	2030	TR8038	2009
TN2SC2002K	2009	TNJ70638	2058	TP4001AN	2401	T-Q5084	2055	TR-7SB	563	TR1005	2030	TR-8039	2009
TN2SC2002K(,2SC2002		TNJ70639	2009	TP4001BN	2401	T-Q5086	2016	TR-8R35	1617	TP1007	2041	TR8039	2009
(L))	2009	TNJ70640	2009	TP4001BP	2401	T-Q5087	2023	TR-9GS	562	TR1011	2009	TR-8040	2016
TN2SC2002L	2009	TNJ70691	2016	TP4009UBN	2449	T-Q5093	2016	T R9S	562	TR1025	2041	TR8040	2009
TN2SC2002L(,2SC2002		TNJ71034	2016	TP4011	2411	T-Q5099	2030	TR-9S	562	TR1030	2023	TR-8042	1617
(M))	2009	TNJ71035	2030	TP4011AN	2411	T-Q5105	2041	TR9S	562	TR-1030-1	2023	TR8042	2016
TN2SC2785	2009	TNJ71036	2009	TP4011B	2411	T-Q5106	2016	TR-9SA	562	TR1030-1	2023	TR-8043	2016
TN2SC2785(,2SC2785(F))		TNJ71037	2023	TP4011BN	2411	TR0055	2023	TR-9SB	562	TR-1030-2	2023	TR8043	1617
	2009	TNJ71143	2016	TP4011BP	2411	TR-01(PENNCREST)	2030	TR9SB	562	TR1030-2	2023	TR8053	1617
TN2SC2785E	2009	TNJ71173	2016	TP4013	2413	TR-01B	2016	TR12EBM	563	TR1031	2009	TR8330	2009
TN2SC2785E(,2SC2785		TNJ71234	2030	TP4013AN	2413	TR-01B(PENNCREST)		TR12SA	563	TR-1031-1	2009	TR9100	1617
(F))	2009	TNJ71271	2016	TP4013BN	2413		1617	TR-19	2023	TR-1031-2	2009	TR-9100-18	1617
TN2SC2785H	2009	TNJ71277	2016	TP4017	2417	TR-01C(PENNCREST)		TR19	2023	TR1032	2023	TR12001-4	1123
TN2SD568K	2020	TNJ71498	2016	TP4017AN	2417		1617	TR-20	2023	TR1032-1	2023	TR14002-6	563
TN2SK68A	2035	TNJ71629	2016	TP4049	2449	TR-01E	2030	TR20	2023	TR-1032-2	2023	TR14002-12	564
TN2SK68A(,2SK68A(M))		TNJ71773	2023	TP4049AN	2449	TR-01E(PENNCREST)	2030	TR-20A	2023	TR1033	1617	TR36643	2030
	2035	TNJ71774	2023	TP4049UBN	2449	TR-02E	1104	TR-21	1617	TR-1033-1	1617	TR310230	2016
TN10	1114	TNJ71937	2016	TP4067-409	1104	TR-06(PENNCREST)	1617	TR21	1617	TR-1033-2	1617	TR310231	1617
TN-53	1617	TNJ71963	2016	TP4067-410	2016	TR-07(PENNCREST)	2030	TR-21C	2009	TR-1033-3	1617	TR310243	1617
TN53	1617	TNJ71964	2016	TP4067-411	2016	TR01014	2016	TR-22	2009	TR1033-3	1617	TR310244	2016
TN-54	1617	TNJ71965	2016	TP4123	1617	TR01015	2009	TR-22C	2009	TR1034	2023	TR310245	1617
TN55	1617	TNJ72146	2055	TP4124	1617	TR01026	2016	TR23	2030	TR-1037-3	2017	TR310249	2016
TN56	1617	TNJ72148	2041	TP4125	2023	TR01037	2030	TR-24	2016	TR1038-4	2043	TR310250	2016
TN-59	1617	TNJ72149	2055	TP4126	2023	TR01040	2016	TR24	2016	TR1038-5	2043	TR320007	1123
TN59	1617	TNJ72150	2016	TP4257	2023	TR01042	2016	TR-24(PHILCO)	2009	TR-1039-4	2041	TR320008	1123
TN-60	1617	TNJ72151	2016	TP4258	2023	TR01053-1	2023	TR-25	2030	TR1039-4	2041	TR320020	1104
TN60	1617	TNJ72154	2023	TP4275	2016	TR01054-7	2030	TR25	2030	TR1039-5	2041	TR320022	1104
TN-61	1617	TNJ72275	2016	TP5135	2009	TR01062-1	2030	TR-26	2041	TR1039-6	2041	TR320039	1123
TN61	1617	TNJ72276	2009	TP5136	2009	TR01073	2009	TR26	2041	TR1077	2041	TR320041	1123
TN-62	1617	TNJ72277	2016	TP5142	2023	TR01074	2009	TR28	2023	TR1490	2041	TR320048	1123
TN62	1617	TNJ72279	2016	TPS6512	1617	TR02020-2	2023	TR-29	2043	TR1491	2041	TR330027	1104
TN-63	1617	TNJ72280	2009	TPS6513	1617	TR02051-1	2023	TR-30	2023	TR1492	2041	TR2320063	2009
TN63	1617	TNJ72281	1617	TPS6514	1617	TR02051-5	2023	TR30	2023	TR1493	2041	TR2327031	1102
TN-64	1617	TNJ72288	2030	TPS6515	1617	TR02051-6	2023	TR-30A	2023	TR1512-80	2016	TR2327041	1102
TN64	1617	TNJ72368	2016	TPS6516	2023	TR02062-1	2023	TR-31	2023	TR1993-2	1617	TR2327203	2020
TN80	1617	TNJ72701	2016	TPS6517	2023	TR02062-6	2023	TR31	2023	TR2083-41	1123	TR2327293	2009
TN237	1617	TNJ72775	2017	TPS6518	2023	TR02063-8	2023	TR33	2016	TR2083-42	1122	TR2327333	2009
TN238	1617	TNJ72783	1617	TPS6519	2023	TR06011	2035	TR38	2016	TR2083-44	1122	TR2327363	2016
TN421	2030	TNJ72784	1617	TPS6520	1617	TR06014	2035	TR-51	2009	TR2083-70	2035	TR2327393	1617
TN-3200	2016	TNT839	2016	TPS6521	1617	TR010602-1	2016	TR-53	2030	TR2083-71	2009	TR2327443	2016
TN3200	2016	TNT840	2016	TPS6522	2023	TR0573486	2009	TR-55	2017	TR2083-72	2009	TR2327444	2016
TN-3903	1617	TNT841	2016	TPS6523	2023	TR0573491	2009	TR-59	2041	TR2083-73	2009	TR2327574	2041
TN3903	1617	TNT842	1617	TQ1	2016	TR0573507	2009	TR59	2041	TR2083-74	2016	TR2327723	2027
TN-3904	1617	TNT843	2016	TQ2	2016	TR0575002	1123	TR-62	2009	TR2880	1104	TR2327743	2023
TN3904	1617	TO-033	1617	TQ3	2016	TR0575005	1123	TR67	2055	TR4010-2	1617	TR2337011	1122
TNC61687	1617	TO-038	1617	TQ4	1617	TR1AC	1000	TR-68	2055	TR5528	2035	TR2337101	563
TNC61690	2023	TO-039	1617	TQ5	2016	TR1N4002	1104	TR68(IR)	2055	TR-8004	2009	TR2337103	563
TNC61702	1617	TO-040	1617	TQ6	2016	TR-1R31	2016	TR-70	2058	TR8004	2016	TR5320326	2016

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TR228735045311	2016	TT2SA950O(,2SA950(Y))		TV48	1617	TV24215	2009	TVM-EH2C11/1	1104	TVS-2SC208A	2016	TVSB1202V	1102
TR228735046011	2016		2023	TV-50	2009	TV24216	2009	TVM-EH2C11/1+12/1		TVS-2SC287A	2016	TVSB1204	1114
TR228735048617	2016	TT2SA1015	2023	TV50	2016	TV24221	1104		1104	TVS-2SC313	2016	TVSB2404C	1104
TR228735048618	2016	TT2SA1015(,2SA1015(Y))		TV-51	2009	TV24224	562	TVM-EH2C12/1	1104	TVS-2SC429A	2016	TVSB2404D	1104
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WEP949	705	WEP6242/5454	1067	WF-120B	563	WH-061B	561	WI-092C	562	WK-052	565	WL-088	562
WEP949/1155	705	WEP6243	1067	WF-120C	563	WH-061C	561	WI-092D	562	WK-052A	565	WL-088A	562
WEP950	2417	WEP6243/5455	1067	WF-120D	563	WH-061D	561	WI-094	562	WK-052B	565	WL-088B	562
WEP950/4017	2417	WEP6244	1020	WF-150	564	WH-063	561	WI-094A	562	WK-052C	565	WL-088C	562
WEP953	1114	WEP6244/5456	1020	WF-150A	564	WH-063A	561	WI-094B	562	WK-052D	565	WL-088D	562
WEP954	1114	WEP6304	1101	WF-150B	564	WH-063B	561	WI-094C	562	WK-061	561	WL-090	562
WEP958	2058	WEP6304/5507	1101	WF-150C	564	WH-063C	561	WI-094D	562	WK-061A	561	WL-090A	562
WEP958/229	2058	WEP6320	1067	WF-150D	564	WH-063D	561	WI-115	563	WK-061B	561	WL-090B	562
WEP966L/966	1171	WEP6320/5400	1067	WF-260	562	WH-065	561	WI-115A	563	WK-061C	561	WL-090C	562
WEP1050	1171	WEP6321	1067	WG-050A	565	WH-065A	561	WI-115B	563	WK-061D	561	WL-090D	562
WEP1051	1171	WEP6321/5401	1067	WG-050B	565	WH-065B	561	WI-115C	563	WK-063	561	WL-092	562
WEP1051/166	1171	WEP6322	1067	WG-050C	565	WH-065C	561	WI-115D	563	WK-063A	561	WL-092A	562
WEP1053	1173	WEP6322/5402	1067	WG-050D	565	WH-065D	561	WI-120	563	WK-063B	561	WL-092B	562
WEP1053/168	1173	WEP6323	1067	WG-052	565	WH-088	562	WI-120A	563	WK-063C	561	WL-092C	562
WEP1060	1122	WEP6323/5403	1067	WG-052A	565	WH-088A	562	WI-120B	563	WK-063D	561	WL-092D	562
WEP1061	1122	WEP6324	1067	WG-052B	565	WH-088B	562	WI-120C	563	WK-065	561	WL-094	562
WEP1061/178MP	1122	WEP6324/5404	1067	WG-052C	565	WH-088C	562	WI-120D	563	WK-065A	561	WL-094A	562
WEP1062	1122	WEP7400	1801	WG-052D	565	WH-088D	562	WI-150	564	WK-065B	561	WL-094B	562
WEP1062/177	1122	WEP7400/7400	1801	WG-061	561	WH-090	562	WI-150A	564	WK-065C	561	WL-094C	562
WEP1063	1115	WEP7401	1801	WG-061A	561	WH-090A	562	WI-150B	564	WK-065D	561	WL-094D	562
WEP1082	1104	WEP7401/7401	1801	WG-061B	561	WH-090B	562	WI-150C	564	WK-088	562	WL-115	563
WEP1083	1104	WEP7408	1822	WG-061C	561	WH-090C	562	WI-150D	564	WK-088A	562	WL-115A	563
WEP1102	565	WEP7408/7408	1822	WG-061D	561	WH-090D	562	WJ-050	565	WK-088B	562	WL-115B	563
WEP1102/5069	565	WEP7490	1808	WG-063	561	WH-092	562	WJ-050A	565	WK-088C	562	WL-115C	563
WEP1103	565	WEP7490/7490	1808	WG-063A	561	WH-092A	562	WJ-050B	565	WK-088D	562	WL-115D	563
WEP1103/135	565	WEP51000-1	1114	WG-063B	561	WH-092B	562	WJ-050C	565	WK-090	562	WL-120	563
WEP1109	562	WEP5D1	1101	WG-063C	561	WH-092C	562	WJ-050D	565	WK-090A	562	WL-120A	563
WEP1109/139	562	WEP5H3	1104 N5	WG-063D	561	WH-092D	562	WJ-052	565	WK-090B	562	WL-120B	563
WEP1113	563	WEP5H4	1101	WG-065	561	WH-094	562	WJ-052A	565	WK-090C	562	WL-120C	563
WEP1113/142	563	WEP5H5	1104 N7	WG-065A	561	WH-094A	562	WJ-052B	565	WK-090D	562	WL-120D	563
WEP1114	564	WF-050	565	WG-065B	561	WH-094B	562	WJ-052C	565	WK-092	562	WO-005	1173

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
WO-6A	1104	WZ920	564	X302181502	2009	X522	1101	Y133101440	1104	Z1A4.7	565	Z12C	563
WO-6B	1102	X0069CE	2401	X302181502(,2SC1815Y)		X522(RECT.)	1104	YAAD004	1104	Z1B4.7	565	Z12K	563
WO6C	1104	X0100AA	1067		2009	XS23	1104	YAAD009	1123	Z1B5.1	565	Z12.0	563
WR-006	1141	X0100AB	1067	X302181509	2009	XS23A	1104	YAAD010	1122	Z1B6.2	561	Z15	564
WR006	1104	X0100BA	1067	X302278500	2009	XS30	2030	YAAD018	1122	Z1B9.1	562	Z15A	564
WR011	1171	X0100BB	1067	X302278530	2009	XS31	1104	YAAD019	1104	Z1B12	563	Z15B	564
WR-013	1104	X0100CA	1020	X302278593	2009	XS36	2016	YAAD020	1104	Z1B15	564	Z15C	564
WR013	1104	X0100CB	1020	X302278594	2009	XS37	2016	YAAD022	1104	Z1C4.7	565	Z15K	564
WR-030	1141	X0100DA	1020	X303088000	2020	XS38	2016	YAAN2SC1096K	2017	Z1C5.1	565	Z15.0	564
WR030	1171	X0100DB	1020	X320010070	1122	XS39	2016	YAAN2SC1096L	2017	Z1C5.6	565	Z111Z	563
WR-040	1141	X0101BA	1067	X320010070(,152095)		XS40	2016	YAAN2SC1096N	2017	Z1C6.2	561	Z694	562
WR040	1171	X0101BB	1067		1122	XS40A	1104	YAANZ2S1096	2017	Z1C9.1	562	Z714	562
WR1	1114	X0101BD	1067	X320010079	1122	XT15X3	2016	YBAD009	1104	Z1C12	563	Z801	561
WR2	1114	X0101DA	1020	X320010080	1122	XU604	1104	YC02P11/2	1114	Z1C15	564	Z-963B	563
WR100	1104	X0101DB	1020	X320010240	1104	XZ-049	565	YD1121	1122	Z1D4.7	565	Z-1004	565
WR200	1104	X0101DD	1020	X320010240(,1S5277B)		XZ049	565	YEAD015	562	Z1D5.1	565	Z1004	565
WR300	1104	X0102AA	1067		1104	XZ-051	565	YEAD025	562	Z1D6.2	561	Z-1014	563
WR400	1104	X0102AB	1067	X320010380	1104	XZ051	565	YEAD030	1104	Z1D9.1	562	Z1014	563
WRE981	1104	X0102BA	1067	X320010390	1122	XZ062	561	YEAD032	1123	Z1D12	563	Z-1016	564
WRR1952	1617	X0102BB	1067	X320010450	1104	XZ-070	561	YEAD1N60P	1123	Z1D15	564	Z1016	564
WRR1953	1617	X0102CA	1020	X320010452	1122	XZ-086	562	YEADAW01-06	561	Z2A47F	565	Z-1102	565
WRR1954	1617	X0102CB	1020	X320010460	1122	XZ-090	562	YEAN2SC941	2009	Z2A51F	565	Z1102	565
WRR1955	1144	X0102DA	1020	X320010470	1122	XZ090	562	YR-011	1104	Z2A62F	561	Z1102-C	565
WRR1956	1144	X0102DB	1020	X320010480	1122	XZ-092	562	YR011	1104	Z2A91F	562	Z-1106	561
WS100	1122	X0103BA	1067	X320010512	1104	XZ092	562	Y56-V139-2-2	1123	Z2A120F	563	Z-1112	563
WS200	1122	X0103BB	1067	X320010939	1122	XZ094	562	YSG-20024	1104	Z2A150F	564	Z1112	563
WS300	1122	X0103BD	1067	X320011201	1122	XZ-122	563	YSG-V47-7-51	1101	Z4A6.2	561	Z1112-C	563
WSD002C	1122	X0103DA	1020	X330000059	565	XZ122	563	YSG-V47-7-51-1	1104	Z4B4.7	565	Z-1112C	563
WT16X8	1101	X0103DB	1020	X330000560	562	XZ-152	564	YSG-V47-7-51-2	1104	Z4B5.1	565	Z1112C	563
WT16X9	1101	X0103DD	1020	X330000582	565	XZ152	564	YSG-V81-2-3	1122	Z4B6.2	561	Z-1114	564
WU-056D	561	X0301BG	1067	X330160109	565	Y0-6A	1104	YSG-V139-2-2	1123	Z4B9.1	562	Z1114	564
WU-065D	561	X0301DG	1020	X340040030	1173	Y100	1101	YSG-V139-22	1123	Z4B12	563	Z1114-C	564
WX-090	562	X0303BG	1067	X340400030	1173	Y29979	2016	YZ-047	565	Z4B15	564	Z1202	565
WX090	562	X0303DG	1020	X340400040	1171	Y56601-08	1617	YZ047A	565	Z4K	565	Z1212	563
WX6	1123	X0304BG	1067	X440029020	1711	Y56601-50	2023	YZ-063	561	Z4MW333	1617	ZA9.1	562
WZ09	562	X0304DG	1020	X440055560	1728	Y1343773-1	2016	YZ063	561	Z4X5.1A	565	ZA9.1A	562
WZ-046	565	X0403BE	1067	X440058120	1771	Y13175962	1122	Z-00	1101	Z4X5.1B	565	ZA9.1B	562
WZ046	565	X0403BF	1067	X440063050	1770	Y13189245	1067	Z0-12	563	Z4X9.1	562	ZA11	563
WZ-048	565	X0403DE	1020	X440070490	2449	Y13238241	2009	Z0-12A	563	Z4X11	563	ZA12	563
WZ048	565	X0403DF	1020	X440070490		Y13290333	2016	Z0-12B	563	Z4X12	563	ZA12A	563
WZ-049	565	X0404BE	1067	(,MC14049UB)	2449	Y13297762	2023	Z0302BG	1000	Z4X15	564	ZA12B	563
WZ-050	565	X0404BF	1067	X440140050	1770	Y13297763	2023	Z0302DG	1000	Z4XL6.2	561	ZA15	564
WZ050	565	X0404DE	1020	X440751880	2520	Y13298671	1122	Z0305BG	1000	Z4XL6.2B	561	ZA15A	564
WZ-052	565	X0404DF	1067	X440751890	2521	Y13310137	2058	Z0305DG	1000	Z4XL9.1	562	ZA-15B	564
WZ052	565	X0609BE	1067	XA121	1104	Y13310138	2016	Z0309BG	1000	Z4XL9.1B	562	ZA15B	564
WZ-061	561	X0609BF	1067	XA494	2023	Y13310139	2023	Z0309DG	1000	Z4XL12	563	ZA15V	564
WZ061	561	X0609DE	1020	XA-495	2023	Y13310147	1104	Z0310BG	1000	Z4XL12B	563	ZB-1	563
WZ-063	561	X0609DF	1020	XA495	2023	Y13331813	2055	Z0310DG	1000	Z4.7	565	ZB1-6	561
WZ063	561	X0709BG	1067	XA495(C)	2023	Y13358072	1617	Z0402BE	1000	Z5A6.2	561	ZB1-9	562
WZ065	561	X0709DG	1020	XA495AC	2023	Y13390991	2020	Z0402BF	1000	Z5B4.7	565	ZB-1-9.5	562
WZ-085	562	X5M6	1104	XA495C	2023	Y13391001	2027	Z0402DE	1000	Z5B5.1	565	ZB1-11	563
WZ085	562	X10G1829	1617	XAA104	1801	Y13398601	1104	Z0402DF	1000	Z5B6.2	561	ZB1-12	563
WZ-088	562	X16	1123	XAA109	1808	Y13399701	2023	Z0405BE	1000	Z5B9.1	562	ZB1-15	564
WZ088	562	X16A545-7	1617	XAN3064	075	Y13411222	1104	Z0405BF	1000	Z5B12	563	ZB4.7	565
WZ-090	562	X16A1938	1617	XB12	2030	Y13417381	2041	Z0405DE	1000	Z5B-15	564	ZB4.7A	565
WZ090	562	X16E3860	1617	XB152	564	Y13430051	2020	Z0405DF	1000	Z5B15	564	ZB4.7B	565
WZ-092	562	X16E3960	1617	XB401	2017	Y13432501	1122	Z0406	565	Z5C4.7	565	ZB5.1	565
WZ092	562	X16N1485	1617	XB404	2020	Y13437771	1104	Z0408	561	Z5C5.1	565	ZB5.1A	565
WZ-094	562	X18	1123	XB408	2020	Y130213003	2009	Z0409BE	1000	Z5C6.2	561	ZB5.1B	565
WZ094	562	X32A1389	2023	XB476	2020	Y130213003(,2SC458D)		Z0409BF	1000	Z5C9.1	562	ZB6.2	561
WZ9.1	562	X32C4211	2009	XC371	2016		2009	Z0409DE	1000	Z5C12	563	ZB6.2A	561
WZ12	563	X32C4296	2009	XC372	2009	Y130213004(,2SC458K)		Z0409DF	1000	Z5C15	564	ZB6.2B	561
WZ15	564	X32C5099	2030	XC373	2009		2009	Z0410BE	1000	Z5D4.7	565	ZB9.1	562
WZ-90	562	X32C5111	2030	XC374	2009	Y130213004(,2SC458L)		Z0410BF	1000	Z5D5.1	565	ZB9.1A	562
WZ-115	563	X32C5198	2009	XC723	2041		2009	Z0410DE	1000	Z5D6.2	561	ZB9.1B	562
WZ115	563	X32C6105	2009	XD2A	1123	Y130213005	2009	Z0410DF	1000	Z5D9.1	562	ZB12	563
WZ-120	563	X32D5422	2009	XG30	1617	Y130213005(,2SC1213D)		Z0412	562	Z5D12	563	ZB12A	563
WZ120	563	X32L4296	2009	XI-548	2041		2009	Z0415	563	Z5D15	564	ZB12B	563
WZ-120(AU)	563	X32M5026	2009	XR1488N	2520	Y130213007	2023	Z0418	564	Z5.1	565	ZB13A	564
WZ-145	564	X32P5660	2016	XR1488P	2520	Y130213007(,2SA673C)		Z0B4.7	565	Z5.1(500MW)	565	ZB15	564
WZ145	564	X34E1226	2023	XR1489AN	2521		2023	Z0B5.1	565	Z6	561	ZB15A	564
WZ-150	564	X34E2111	2009	XS1	2016	Y130213041	1122	Z0B6.2	561	Z6.2	561	ZB15B	564
WZ150	564	X44C358	2020	XS2	2016	Y130213043	1104	Z0B9.1	562	Z6.2A	561	ZB206	561
WZ522	565	X45C359	2027	XS3	2016	Y130213045	1104	Z0B12	563	Z6.2B	561	ZB209	562
WZ529	562	X4604	1104	XS4	2016	Y131759610	1122	Z0B15	564	Z6.2C	561	ZB212	563
WZ531	562	X-23305-3	1144	XS6	2016	Y132929871	1122	Z0C4.7	565	Z8	562	ZBI-09	562
WZ532	562	X-23305-4	1144	XS9.1B	562	Y133101310	2009	Z0C5.1	565	Z9.1	562	ZBI-14	564
WZ535	563	X330302	563	XS10	1104	Y133101321	2016	Z0C6.2	561	Z9.1A	562	ZC012	563
WZ538	564	X300073360	2023	XS14	2016	Y133101322	2009	Z0C9.1	562	Z9.1B	562	ZC015	564
WZ904	565	X300101502	2023	XS15	2016	Y133101328	2009	Z0C12	563	Z9.1C	562	ZC1N34A	1123
WZ905	565	X300101502(,2SA1015Y)		XS16	1104	Y133101363	2009	Z0C15	564	Z-11	563	ZC1S358S	1122
WZ907	561		2023	XS16A	1104	Y133101411	1122	Z0D4.7	565	Z-12	563	ZC106	561
WZ912	562	X300101509	2023	XS17	1104	Y133101412	1123	Z0D5.1	565	Z12	563	ZC109	562
WZ913	562	X300115080	2023	XS17A	1104	Y133101413	1122	Z0D6.2	561	Z12(500MW)	563	ZC112	563
WZ914	562	X300117500	2023	XS18	1104	Y133101414	565	Z0D9.1	562	Z12A	563	ZC115	564
WZ916	563	X300117593	2023	XS19	2023	Y133101417	1122	Z0D12	563	Z12B	563	ZC-140(TRANS)	2020
WZ917	563	X302094530	2009	XS21	1617	Y133101419	1104	Z0D15	564	Z12B(,MZ312B)	563	ZC709	562

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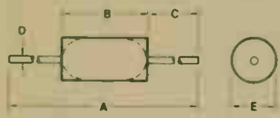
ZC712	563	ZF19.1	562	ZO12A	563	ZR821-20	561	ZS74B	1104	ZT116	1617	ZTE4.7	565
ZC715	564	ZF24.7R	565	ZO-12B	563	ZR821-50	561	ZS76	1104	ZT117	1617	ZTE5.1	565
ZC2800A	1104	ZF25.1R	565	ZO12B	563	ZR821-75	561	ZS78	1114	ZT118	1617	ZTR-1N60	1123
ZCO12	563	ZF26.2	561	ZO-15	564	ZR821-100	561	ZS78A	1114	ZT119	1617	ZTR-FOR2B	1067
ZCOM3679	1104	ZF29.1	562	ZO15	564	ZR821-120	561	ZS78B	1114	ZT131	2023	ZTR-FOR2B	1067
ZCOM-5683-0	1104	ZF112	563	ZO-15A	564	ZR821-150	561	ZS90	1102	ZT152	2023	ZTR-W06B	1102
ZD009	562	ZF115	564	ZO15A	564	ZR823-5	561	ZS91	1104	ZT153	2023	ZTR-W06C	1104
ZD012	563	ZF212	563	ZO-15B	564	ZR823-10	561	ZS92	1102	ZT154	2023	ZTR-W06B	1104
ZD-015	564	ZF215	564	ZOB5.1	565	ZR823-20	561	ZS94	1103	ZT180	2023	ZTX31U	2016
ZD015	564	ZG100119	564	ZOB6.2	561	ZR823-50	561	ZS100	1104	ZT181	2023	ZTX107	2009
ZD-5V	565	ZH9.1	562	ZOB12	563	ZR823-75	561	ZS101	1104	ZT182	2023	ZTX108	2009
ZD5.1	565	ZH9.1A	562	ZOB15	564	ZR823-100	561	ZS102	1102	ZT183	2023	ZTX108A-(RED)	2009
ZD5.1A	565	ZH9.1B	562	ZOD6.2	561	ZR823-120	561	ZS103	1103	ZT184	2023	ZTX109	2009
ZD6.2	561	ZH11	563	ZOD15	564	ZR823-150	561	ZS104	1103	ZT187	2023	ZTX114	2009
ZD6.2A	561	ZH11A	563	ZP4.7	565	ZR825-5	561	ZS106	1104	ZT189	2023	ZTX212	2023
ZD6.2B	561	ZH11B	563	ZP5.1	565	ZR825-10	561	ZS108	1114	ZT190	2030	ZTX212A-(RED)	2023
ZD-6.2V	561	ZH12	563	ZP6.2	561	ZR825-20	561	ZS120	1101	ZT191	2030	ZTX213	2023
ZDT10	2016	ZH12A	563	ZP9.1	562	ZR825-50	561	ZS121	1104	ZT192	2030	ZTX213A-(RED)	2023
ZDT11	2016	ZH12B	563	ZP9.1A	562	ZR825-75	561	ZS122	1102	ZT193	2030	ZTX214	2023
ZDT20	2016	ZH15	564	ZP9.1B	562	ZR825-100	561	ZS123	1103	ZT202	1617	ZTX300	2009
ZDT21	2016	ZH15A	564	ZP12	563	ZR825-120	561	ZS124	1103	ZT202P	1617	ZTX301	2009
ZDT30	2016	ZH15B	564	ZP12A	563	ZR825-150	561	ZS142	1122	ZT203	1617	ZTX302	2009
ZDT31	2016	ZH104	565	ZP12B	563	ZR827-5	561	ZS174	1104	ZT203P	1617	ZTX303	2009
ZE1.5	1123	ZH106	561	ZP15	564	ZR827-10	561	ZS270	1141	ZT204	1617	ZTX304	2009
ZE4.7	565	ZH109	562	ZP15A	564	ZR827-20	561	ZS271	1143	ZT204P	1617	ZTX310	2009
ZE9V4	562	ZH112	563	ZP15B	564	ZR827-50	561	ZS272	1143	ZT280	2023	ZTX311	2009
ZE9.1	562	ZJ9.1	562	ZP20-0120	1104	ZR827-75	561	ZS274	1144	ZT281	2023	ZTX312	2009
ZE9.1A	562	ZJ9.1A	562	ZPD4.7	565	ZR827-100	561	ZS278	1114	ZT282	2023	ZTX320	2016
ZE9.1B	562	ZJ9.1B	562	ZPD5V1	565	ZR827-120	561	ZS605	561	ZT283	2023	ZTX321	2016
ZE12	563	ZJ12	563	ZPD5.1	565	ZR827-150	561	ZS701	1143	ZT284	2023	ZTX330	2009
ZE12A	563	ZJ12A	563	ZPD6V2	561	ZR829-50	561	ZS702	1143	ZT287	2023	ZTX331	2009
ZE12B	563	ZJ12B	563	ZPD6.2	561	ZR829-75	561	ZS6010	561	ZT402	1617	ZTX360	2009
ZE13A	563	ZJ13	563	ZPD9V1	562	ZR829-100	561	ZS6011	561	ZT402P	1617	ZTX501	2023
ZE15	564	ZJ13A	563	ZPD9.1	562	ZR829-120	561	ZS6020	561	ZT403	1617	ZTX502	2023
ZE15A	564	ZJ13B	563	ZPD12	563	ZR1025	1104	ZS6021	561	ZT403P	1617	ZTX503	2023
ZE15B	564	ZJ15	564	ZPD12V	563	ZR1031	1104	ZT06	2016	ZT404	1617	ZTX504	2023
ZEC4.7	565	ZJ15A	564	ZPD15	564	ZR1035	1104	ZT6.2	561	ZT404P	1617	ZTX510	2023
ZEC12	563	ZJ15B	564	ZPD15V	564	ZR1076	1104	ZT6.2A	561	ZT406	1617	ZTX530	2023
ZEC15	563	ZJ40	2016	ZPY3.9	562	ZS6	561	ZT6.2B	561	ZT600	2017	ZTX531	2023
ZEN100	2009	ZJ252B	1104	ZPY4.7	565	ZS7	1101	ZT9.1	562	ZT696	1617	ZTX3702	2023
ZEN102	2009	ZM4.7	565	ZPY5.1	565	ZS8	1102	ZT9.1A	562	ZT697	1617	ZTX3703	2023
ZEN103	1617	ZM4.7A	565	ZPY6.2	561	ZS9.1	562	ZT9.1B	562	ZT706	1617	ZTX3905	2023
ZEN104	2016	ZM4.7B	565	ZPY9.1	562	ZS9.1A	562	ZT12	563	ZT706A	1617	ZTX4402	2023
ZEN105	2058	ZM5.1	565	ZPY12	563	ZS9.1B	562	ZT12A	563	ZT708	1617	ZU9.1	562
ZEN107	2023	ZM5.1A	565	ZPY15	564	ZS10A	1104	ZT12B	563	ZT709	2016	ZU9.1A	562
ZEN108	2058	ZM5.1B	565	ZQ-6	561	ZS-10B	1104	ZT15	564	ZT917	2016	ZU9.1B	562
ZEN109	2058	ZM6.2	561	ZQ9.1	562	ZS10B	1104	ZT15A	564	ZT918	2016	ZU12	563
ZEN110	2009	ZM6.2A	561	ZQ9.1A	562	ZS12	563	ZT15B	564	ZT930	2016	ZU12A	563
ZEN111	1617	ZM6.2B	561	ZQ9.1B	562	ZS12A	563	ZT20	1617	ZT1420	1617	ZU12B	563
ZEN112	1617	ZM8.7	562	ZQ12	563	ZS12B	563	ZT21	1617	ZT1479	2030	ZU15A	564
ZEN113	2016	ZM8.7A	562	ZQ12A	563	ZS15	564	ZT22	1617	ZT1481	2030	ZU15B	564
ZEN114	1617	ZM8.7B	562	ZQ12B	563	ZS15A	564	ZT23	1617	ZT1483	2020	ZV9.1	562
ZEN115	1617	ZM9.1	562	ZQ15	564	ZS15B	564	ZT24	1617	ZT1484	2020	ZV9.1A	562
ZEN116	2016	ZM9.1A	562	ZQ15A	564	ZS20A	1104	ZT27	2009	ZT1485	2020	ZV9.1B	562
ZEN117	2016	ZM9.1B	562	ZQ15B	564	ZS20B	1104	ZT40	1617	ZT1486	2020	ZV12	563
ZEN118	2016	ZM9.1C	562	ZR10	1141	ZS21	1104	ZT41	1617	ZT1487	2041	ZV12A	563
ZEN119	2009	ZM12	563	ZR11	1143	ZS22	1104	ZT42	1617	ZT1488	2041	ZV12B	563
ZEN120	2009	ZM12A	563	ZR12	1143	ZS23	1104	ZT43	1617	ZT1489	2041	ZV15	564
ZEN121	2009	ZM12B	563	ZR13	1144	ZS24	1104	ZT44	1617	ZT1490	2041	ZV15A	564
ZEN122	2023	ZM12C	563	ZR14	1144	ZS25	1104	ZT50	1617	ZT1613	2030	ZV15B	564
ZEN123	2035	ZM15	564	ZR15	1104	ZS30	1104	ZT60	1617	ZT1700	2030	ZW0-9.1	562
ZEN126	2009	ZM15A	564	ZR50B[illegible]93-1	563	ZS30A	1104	ZT61	1617	ZT1701	2020	ZW2	1102
ZEN127	2009	ZM15B	564	ZR50B921-3	564	ZS30B	1104	ZT62	1617	ZT1702	2041	ZW4.7	565
ZEN401	1114	ZM15C	564	ZR60	1104	ZS31	1104	ZT63	1617	ZT1708	1617	ZW5.1	565
ZEN430	1123	ZMM6.2	561	ZR61	1104	ZS31A	1104	ZT64	1617	ZT1711	2030	ZW6.2	561
ZEN500	561	ZMM9.1	562	ZR62	1104	ZS31B	1104	ZT66	1617	ZT2102	2030	ZW9.1	562
ZEN502	563	ZMM12	563	ZR63	1104	ZS32	1104	ZT68	1617	ZT2205	1617	ZW12	563
ZEN508	564	ZMM15	564	ZR64	1104	ZS32A	1104	ZT80	1617	ZT2206	1617	ZW15	564
ZF4.7	565	ZMZ205	565	ZR66	1104	ZS32B	1104	ZT81	1617	ZT2270	2030	ZWO-9.1	562
ZF4.7P	555	ZN7400E	1801	ZR68	1114	ZS34	1104	ZT82	1617	ZT2368	1617	ZY4.7	565
ZF5.1	555	ZN7400F	1801	ZR209	562	ZS34A	1104	ZT83	1617	ZT2369	1617	ZY5.1	565
ZF6A	561	ZN7401E	1801	ZR209T1	562	ZS34B	1104	ZT84	1617	ZT2369A	1617	ZY6.2	561
ZF6.2	551	ZN7401F	1801	ZR209T3	562	ZS40	1122	ZT86	2030	ZT2475	2016	ZY9.1	562
ZF9.1	562	ZN7404E	1802	ZR210	562	ZS40A	1101	ZT87	1617	ZT2476	1617	ZY12A	563
ZF9.1A	562	ZN7408E	1822	ZR212	563	ZS50	1122	ZT88	2030	ZT2477	1617	ZY12B	563
ZF9.1B	562	ZN7408J	1822	ZR500	1104	ZS51	1102	ZT89	1617	ZT2708	2016	ZY15A	564
ZF12	563	ZN7490E	1808	ZR590	1104	ZS52	1102	ZT90	2030	ZT2857	2016	ZY15B	564
ZF12A	563	ZN7490F	1808	ZR590A	1104	ZS53	1103	ZT93	2030	ZT2876	2020	ZZ4.1	565
ZF12B	563	ZN35024712	2027	ZR601	1143	ZS61	561	ZT94	2030	ZT2938	1617	ZZ4.7	565
ZF15	564	ZO9.1	562	ZR602	1143	ZS70	1104	ZT110	1617	ZT3269A	2016	ZZ5.1	565
ZF15A	564	ZO9.1A	562	ZR604	1144	ZS71	1104	ZT111	1617	ZT3375	2017	ZZ6.2	561
ZF15B	564	ZO9.1B	562	ZR608	1114	ZS72	1104	ZT112	1617	ZT3512	2030	ZZ9.1	562
ZF15.1R	565	ZO-12	563	ZR821-5	561	ZS73	1104	ZT113	1617	ZT3600	2016	ZZ12	563
ZF-16	564	ZO12	563	ZR821-10	561	ZS74	1104	ZT114	1617	ZT3866	2030	ZZ15	564
ZF16.2	561	ZO-12A	563										

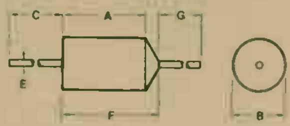
QUICK CASE REFERENCE

A1

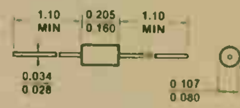


May show color bands to denote polarity

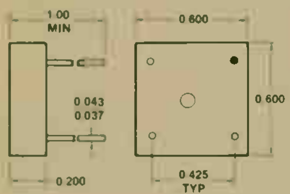
A3



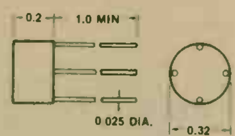
DO41



M532A

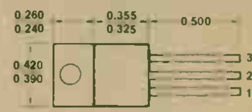


M548



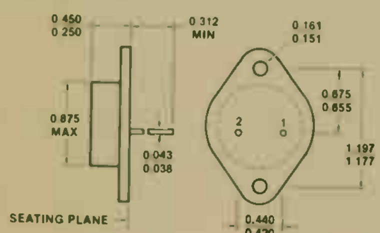
Positive: Red or Square Lead

MU27



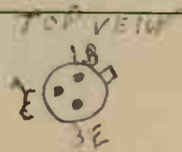
SCR	TRIAC
1 CATHODE	1-ANODE 1
2 ANODE	2 ANODE 2
3-GATE	3 GATE

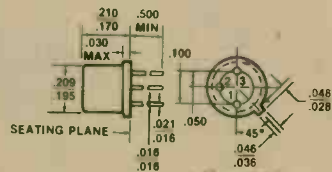
TO3



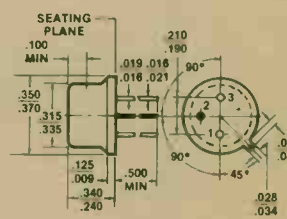
1 BASE
2 EMITTER
CASE COLLECTOR

TO18

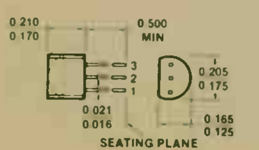




TO39

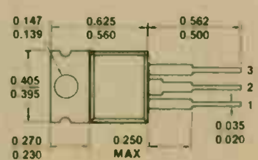


TO92



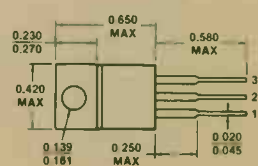
N CHANNEL FET	UNIJUNCTION	BIPOLAR
1 SOURCE	1 BASE 1	1-EMITTER
2 GATE	2 EMITTER	2 BASE
3 DRAIN	3 BASE 2	3 COLLECTOR

TO220



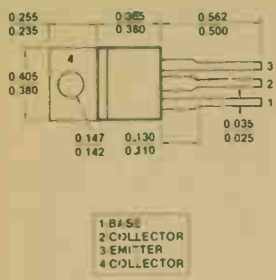
BIPOLAR	TRIAC
1-BASE	1 ANODE 1
2 COLLECTOR	2 ANODE 2
3-EMITTER	3-GATE

TO220AB

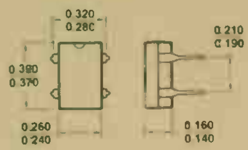


1-GATE
2 DRAIN
3 SOURCE

TO220AB-2



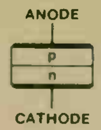
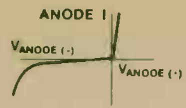
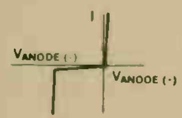
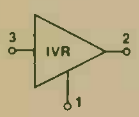
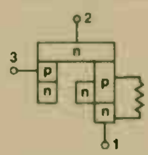
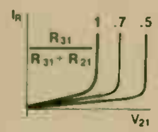
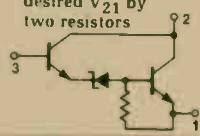
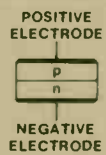
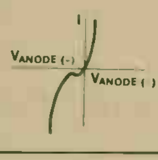
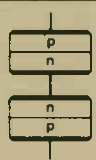
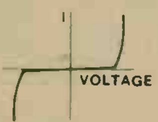
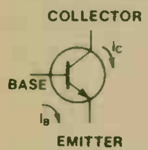
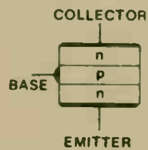
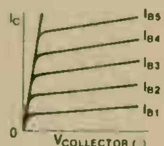
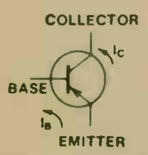
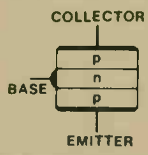
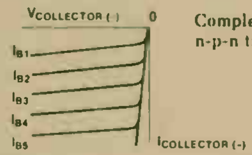
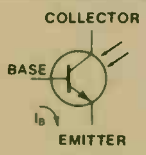
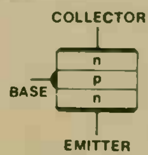
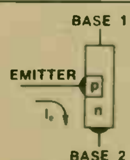
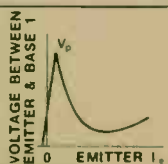
Y1



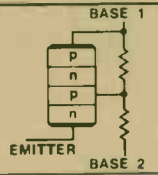
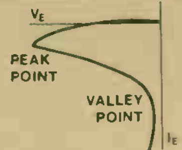
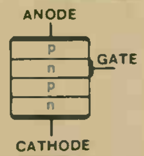
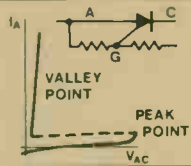
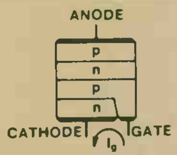
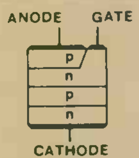
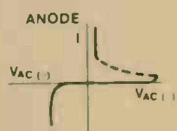
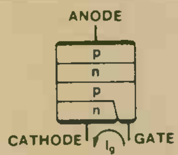
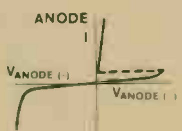
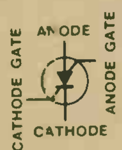
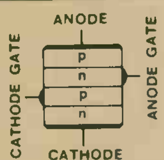
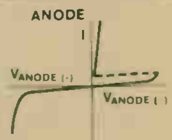
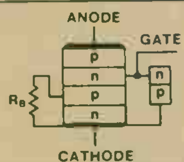
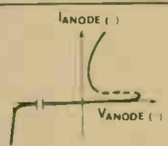
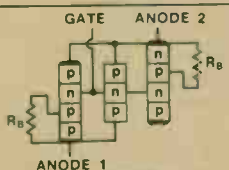
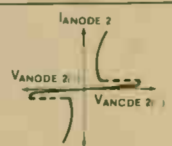
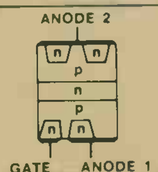
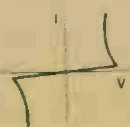
SEMICONDUCTOR CROSS-REFERENCE NOTES

N1 Two required, connect in series—anode to anode.
N2 Two required, connect in series—cathode to cathode.
N3 Two required, connect in series—anode to cathode.
N5 Four required, connect as in original circuit.
N6 Five required, connect as in original circuit.
N7 Six required, connect as in original circuit.
N8 Seven required, connect as in original circuit.
N9 Eight required, connect as in original circuit.

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier			 Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode			 Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)			 Programmed to desired V_{21} by two resistors 	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode			 Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode			 Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector			 Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2″ Sq cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor			 Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor			 Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor			 Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)			 Unijunction emitter blocks until its voltage reaches V_p; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS		MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				Functional complement to UJT	30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				Programmed by two resistors for V_p, I_p, I_v. Function equivalent to normal UJT.	40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				With anode voltage (+), SCR can be triggered by I_g, remaining in conduction until anode I is reduced to zero	1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyratron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				Polarity complement to SCR	50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				Operates similar to SCR, except can also be triggered into conduction by light falling on junctions	1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				Operates similar to SCR except can also be triggered by a negative signal on anode-gate. Also several other specialized modes of operation	100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair 
Silicon Unilateral Switch (SUS)				Similar to SCS but zener added to anode gate to trigger device into conduction at ~ 8 volts. Can also be triggered by negative pulse at gate lead	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4 layer diode
Silicon Bilateral Switch (SBS)				Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Schockley diodes
Triac				Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal	25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				When voltage reaches trigger level (about 35 volts) abruptly switches down about 10 volts	40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode
B, b —Base
b_{fs} —Common-source small-signal forward transfer susceptance
b_{is} —Common-source small-signal input susceptance
b_{os} —Common-source small-signal output susceptance
b_{rs} —Common-source small-signal reverse transfer susceptance
C, c —Collector
C_{cb} —Collector-base interterminal capacitance
C_{ce} —Collector-emitter interterminal capacitance
C_{ds} —Drain-source capacitance
C_{du} —Drain-substrate capacitance
C_{eb} —Emitter-base interterminal capacitance
C_{ibo} —Common-base open-circuit input capacitance
C_{ibs} —Common-base short-circuit input capacitance
C_{ieo} —Common-emitter open-circuit input capacitance
C_{ies} —Common-emitter short-circuit input capacitance
C_{iss} —Common-source short-circuit input capacitance
C_{obo} —Common-base open-circuit output capacitance
C_{obs} —Common-base short-circuit output capacitance
C_{oeo} —Common-emitter open-circuit output capacitance
C_{oes} —Common-emitter short-circuit output capacitance
C_{oss} —Common-source short-circuit output capacitance
C_{rbs} —Common-base short-circuit reverse transfer capacitance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance
C_{res} —Common-emitter short-circuit reverse transfer capacitance
C_{rss} —Common-source short-circuit reverse transfer capacitance
C_{Tc} —Collector depletion-layer capacitance
C_{Te} —Emitter depletion-layer capacitance
D, d —Drain
E, e —Emitter
η —Intrinsic standoff ratio
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency
f_{max} —Maximum frequency of oscillation
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)
G, g —Gate
g_{fs} —Common-source small-signal forward transfer conductance
g_{is} —Common-source small-signal input conductance
g_{MB} —Common-base static transconductance
g_{MC} —Common-collector static transconductance
g_{ME} —Common-emitter static transconductance
g_{os} —Common-source small-signal output conductance
G_{PB} —Common-base large-signal insertion power gain
G_{pb} —Common-base small-signal insertion power gain
G_{PC} —Common-collector large-signal insertion power gain
G_{pc} —Common-collector small-signal insertion power gain
G_{PE} —Common-emitter large-signal insertion power gain
G_{pe} —Common-emitter small-signal insertion power gain
G_{pg} —Common-gate small-signal insertion power gain
G_{ps} —Common-source small-signal insertion power gain
g_{rs} —Common-source small-signal reverse transfer conductance
G_{TB} —Common-base large-signal transducer power gain
G_{tb} —Common-base small-signal transducer power gain
G_{TC} —Common-collector large-signal transducer power gain
G_{tc} —Common-collector small-signal transducer power gain
G_{TE} —Common-emitter large-signal transducer power gain
G_{te} —Common-emitter small-signal transducer power gain
G_{tg} —Common-gate small-signal transducer power gain
G_{ts} —Common-source small-signal transducer power gain
h_{FB} —Common-base static forward current transfer ratio
h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
h_{FC} —Common-collector static forward current transfer ratio
h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
h_{FE} —Common-emitter static forward current transfer ratio
h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
h_{FEL} —Inherent large-signal forward current transfer ratio
h_{IB} —Common-base static input resistance
h_{ib} —Common-base small-signal short-circuit input impedance
h_{IC} —Common-collector static input resistance
h_{ic} —Common-collector small-signal short-circuit input impedance
h_{IE} —Common-emitter static input resistance
h_{ie} —Common-emitter small-signal short-circuit input impedance
$h_{ie(imag)}$ —Imaginary part of common-emitter small-signal short-circuit input impedance
$h_{ie(real)}$ —Real part of common-emitter small-signal short-circuit input impedance
h_{ob} —Common-base small-signal open-circuit output admittance
h_{oc} —Common-collector small-signal open-circuit output admittance
h_{oe} —Common-emitter small-signal open-circuit output admittance
$h_{oe(imag)}$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$h_{oe(real)}$ —Real part of common-emitter small-signal open-circuit output admittance

h_{rb} —Common-base small-signal open-circuit reverse voltage transfer ratio

h_{rc} —Common-collector small-signal open-circuit reverse voltage transfer ratio

h_{re} —Common-emitter small-signal open-circuit reverse voltage transfer ratio

I_B —Base-terminal dc current

I_b —Alternating component (rms value) of base-terminal current

i_B —Instantaneous total value of base-terminal current

I_{BEV} —Base cutoff current, dc

$I_{B2(mod)}$ —Interbase modulated current

I_C —Collector-terminal dc current

I_c —Alternating component (rms value) of collector-terminal current

i_C —Instantaneous total value of collector-terminal current

I_{CBO} —Collector cutoff current (dc), emitter open

I_{CEO} —Collector cutoff current (dc), base open

I_{CER} —Collector cutoff current (dc), specified resistance between base and emitter

I_{CES} —Collector cutoff current (dc), base shorted to emitter

I_{CEV} —Collector cutoff current (dc), specified voltage between base and emitter

I_{CEX} —Collector cutoff current (dc), specified circuit between base and emitter

I_D —Drain current, dc

$I_{D(off)}$ —Drain cutoff current

$I_{D(on)}$ —On-state drain current

I_{DSS} —Zero-gate-voltage drain current

I_E —Emitter-terminal dc current

I_e —Alternating component (rms value) of emitter-terminal current

i_E —Instantaneous total value of emitter-terminal current

I_{EBO} —Emitter cutoff current (dc), collector open

I_{EB2O} —Emitter reverse current

$I_{EC(ofs)}$ —Emitter-collector offset current

I_{ECS} —Emitter cutoff current (dc), base short-circuited to collector

$I_{E1E2(off)}$ —Emitter cutoff current

I_F —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)

I_f —Alternating component of forward current (rms value)

i_F —Instantaneous total forward current

$I_{F(AV)}$ —Forward current, dc (with alternating component)

I_{FM} —Maximum (peak) total forward current

$I_{F(OV)}$ —Forward current, overload

I_{FRM} —Maximum (peak) forward current, repetitive

$I_{F(RMS)}$ —Total rms forward current

I_{FSM} —Maximum (peak) forward current, surge

I_G —Gate current, dc

I_{GF} —Forward gate current

I_{GR} —Reverse gate current

I_{GSS} —Reverse gate current, drain short-circuited to source

I_{GSSF} —Forward gate current, drain short-circuited to source

I_{GSSR} —Reverse gate current, drain short-circuited to source

I_I —Inflection-point current

$Im(h_{ie})$ —Imaginary part of common-emitter small-signal short-circuit input impedance

$Im(h_{oe})$ —Imaginary part of common-emitter small-signal open-circuit output admittance

I_O —Average forward current, 180° conduction angle, 60-Hz half sine wave

I_P —Peak-point current

I_R —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)

I_r —Alternating component of reverse current (rms value)

i_R —Instantaneous total reverse current

$I_{R(AV)}$ —Reverse current, dc (with alternating component)

I_{RM} —Maximum (peak) total reverse current

I_{RRM} —Maximum (peak) reverse current, repetitive

$I_{R(RMS)}$ —Total rms reverse current

I_{RSM} —Maximum (peak) surge reverse current

I_S —Source current, dc

I_{SDS} —Zero-gate-voltage source current

$I_{S(off)}$ —Source cutoff current

I_V —Valley-point current

I_Z —Regulator current, reference current (dc)

I_{ZK} —Regulator current, reference current (dc near breakdown knee)

I_{ZM} —Regulator current, reference current (dc maximum rated current)

K, k —Cathode

L_c —Conversion loss

M —Figure of merit

NF_o —Overall noise figure

NR_o —Output noise ratio

P_{BE} —Power input (dc) to base, common emitter

p_{BE} —Instantaneous total power input to base, common emitter

P_{CB} —Power input (dc) to collector, common base

p_{CB} —Instantaneous total power input to collector, common base

P_{CE} —Power input (dc) to collector, common emitter

p_{CE} —Instantaneous total power input to collector, common emitter

P_{EB} —Power input (dc) to emitter, common base

p_{EB} —Instantaneous total power input to emitter, common base

P_F —Forward power dissipation, dc (no alternating component)

p_F —Instantaneous total forward power dissipation

$P_{F(AV)}$ —Forward power dissipation, dc (with alternating component)

P_{FM} —Maximum (peak) total forward power dissipation

P_{IB} —Common-base large-signal input power

p_{ib} —Common-base small-signal input power

P_{IC} —Common-collector large-signal input power

p_{ic} —Common-collector small-signal input power

P_{IE} —Common-emitter large-signal input power

p_{ie} —Common-emitter small-signal input power

P_{OB} —Common-base large-signal output power

p_{ob} —Common-base small-signal output power

P_{OC} —Common-collector large-signal output power

p_{oc} —Common-collector small-signal output power

P_{OE} —Common-emitter large-signal output power

p_{oe} —Common-emitter small-signal output power

P_R —Reverse power dissipation, dc (no alternating component)

p_R —Instantaneous total reverse power dissipation

$P_{R(AV)}$ —Reverse power dissipation, dc (with alternating component)

P_{RM} —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
r_bC_c —Collector-base time constant
$r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
$r_{DS(on)}$ —Static drain-source on-state resistance
$r_{ds(on)}$ —Small-signal drain-source on-state resistance
$Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
$Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
$r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
$R_{\theta CA}$ —Thermal resistance, case to ambient
$R_{\theta JA}$ —Thermal resistance, junction to ambient
$R_{\theta JC}$ —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
$t_{d(off)}$ —Turn-off delay time
$t_{d(on)}$ —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_J —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
V_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
$V_{(BR)}$ —Breakdown voltage (dc)
$v_{(BR)}$ —Breakdown voltage (instantaneous total)
$V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
$V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
$V_{(BR)CER}$ —Collector-emitter breakown voltage, resistance between base and emitter
$V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
$V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
$V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
$V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
$V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base
$V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
$V_{(BR)GSS}$ —Gate-source breakdown voltage
$V_{(BR)GSSF}$ —Forward gate-source breakdown voltage
$V_{(BR)GSSR}$ —Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
$V_{CB(fl)}$ —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
$V_{CE(fl)}$ —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
$V_{CE(ofs)}$ —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
$V_{CE(sat)}$ —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
$V_{DS(on)}$ —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
$V_{EB(fl)}$ —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
$V_{EB1(sat)}$ —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
$V_{EC(fl)}$ —Emitter-collector dc open-circuit voltage (floating potential)
$V_{EC(ofs)}$ —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
v_F —Instantaneous total forward voltage
$V_{F(AV)}$ —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
$V_{F(RMS)}$ —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
$V_{GS(off)}$ —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
$V_{GS(th)}$ —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

v_R —Instantaneous total reverse voltage
$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
V_{RM} —Maximum (peak) total reverse voltage
V_{RRM} —Repetitive peak reverse voltage
$V_{R(RMS)}$ —Total rms reverse voltage
V_{RSM} —Nonrepetitive peak reverse voltage
V_{RT} —Reach-through voltage
V_{RWM} —Working peak reverse voltage
V_{SS} —Source supply voltage (dc)
V_{SU} —Source-substrate voltage
$V_{(TO)}$ —Threshold voltage
V_V —Valley-point voltage
V_Z —Regulator voltage, reference voltage (dc)
V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
y_{fb} —Common-base small-signal short-circuit forward transfer admittance
y_{fc} —Common-collector small-signal short-circuit forward transfer admittance
y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
y_{fs} —Common-source small-signal short-circuit forward transfer admittance
$y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance
$y_{fs(real)}$ —Common-source small-signal forward transfer conductance
y_{ib} —Common-base small-signal short-circuit input admittance
y_{ic} —Common-collector small-signal short-circuit input admittance
y_{ie} —Common-emitter small-signal short-circuit input admittance
$y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)
$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
y_{is} —Common-source small-signal short-circuit input admittance
$y_{is(imag)}$ —Common-source small-signal input susceptance
$y_{is(real)}$ —Common-source small-signal input conductance
y_{ob} —Common-base small-signal short-circuit output admittance
y_{oc} —Common-collector small-signal short-circuit output admittance
y_{oe} —Common-emitter small-signal short-circuit output admittance
$y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)
$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
y_{os} —Common-source small-signal short-circuit output admittance
$y_{os(imag)}$ —Common-source small-signal output susceptance
$y_{os(real)}$ —Common-source small-signal output conductance
y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
$y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance
$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
z_{if} —Intermediate-frequency impedance
z_m —Modulator-frequency load impedance
z_{rf} —Radio-frequency impedance
$Z_{\theta JA(t)}$ —Junction-to-ambient transient thermal impedance
$Z_{\theta JC(t)}$ —Junction-to-case transient thermal impedance
$Z_{\theta(t)}$ —Transient thermal impedance
z_v —Video impedance
z_z —Regulator impedance, reference impedance (small-signal at I_Z)
z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instruments
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instruments
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instruments
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instruments
LM	National Semiconductor	PCIM	PC International	TLG	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciton
MM	National Semiconductor. Motorola or Teledyne	SEL	Sanken		
		SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

QUICK INDEX BY CATEGORY

MASTER INDEX BY CATALOG NUMBER

OPTOELECTRONIC INDEX BY FUNCTION

ALPHABETICAL/NUMERICAL INDEX

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